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# **CR-IR347/CR-IR347P Service Manual**

Installation (IN)

### **CR-IR347 Service Manual – Contents**

### **Installation (IN)**

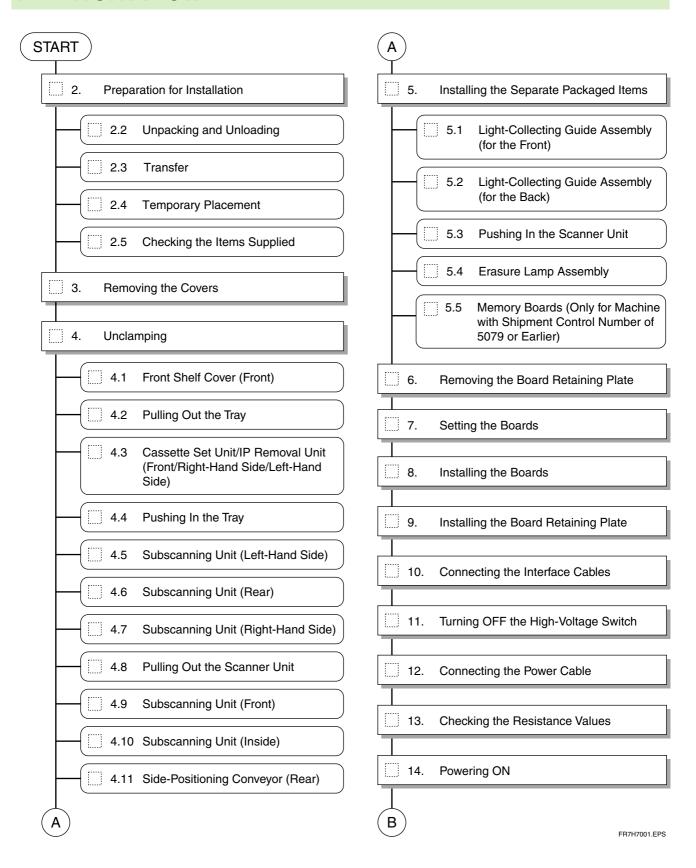
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Control Sheet					
Issue date	Revision number	Reason	Pages affected		
10/20/2000	00	New release (FM2732)	All pages		
05/15/2001	01	Corrections (FM3052)	IN - 50–87		
			IN_A1 - 2-4, 9, 10, 12, 16		
08/30/2001	02	Support for "plus"; measures against	IN - 9, 24, 51, 51.1-51.4, 52,		
		noise (FM3142)	53, 57-59, 70, 71,		
			IN_A1 - 2-4, 9, IN_A4-All pages		
08/30/2002	03	Image checks and other information added	IN - 2–10, 44, 50, 51, 51.2,		
		(FM3476)	53, 63, 76-79, 79.1–79.4,		
			IN_A1 - 3, 13, 15, 18,		
			IN_A3 - 3		

### Work Flow



В				
15. Checking the Fan Operation				
16. Measuring and Adjusting the Voltage				
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27.1 Securing the Machine with the Adjustable Feet				
27.2 Securing the Machine with the Clamps				
END FR7H7002.EPS				

### 2. Preparation for Installation

#### ■ Notation of Board Names in Manual

Information about modifications to the boards installed in the machine is summarized here. Unless spelled out or enumerated in the manual, board names shall be replaced as follows.

Change to boards installed	Summary of change	
MTH08C → MTH08D	<ul> <li>Features of the MTH08D board</li> <li>DIP switch (S1) was added.</li> <li>The fuse was changed to a replaceable glass tube type.</li> <li>The subject to be protected by the fuse was changed.</li> </ul>	
MMA90A → DIM08A MMB90A → DIM08A	<ul> <li>Features of the DIM08A board</li> <li>Memory module for the MTH08D board.</li> <li>The procedure for its removal/reinstallation was changed to horizontal detachment.</li> <li>Shipped as installed in the machine.</li> </ul>	
CPU90F → LAN90B	<ul> <li>Features of the LAN90B board</li> <li>To install the LAN90B board, it is necessary that the bracket located on the rear side of the controller be version D or later.</li> </ul>	

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#### 2.1 Precautions for Installation

The place where the machine is to be installed needs to meet the criteria set forth in "Getting Started" and "Installation Site Requirements." Preinstallation procedures should also be performed beforehand for necessary construction work, electrical utility, and air-conditioning system installation.

#### ■ Installation Site Requirements

Avoid the following installation sites:

- Places where the temperature changes drastically.
- Places near heat sources such as heaters.
- Places where water leakage or equipment submersion may occur.
- Places where the machine may be exposed to any corrosive gas.
- · Dusty places.
- Places where the machine is subject to constant or excessive vibration or shock.
- Places that are exposed to direct sunlight.

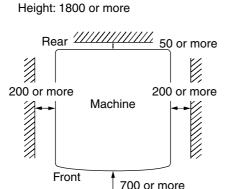
#### **■ Power Supply and Grounding Requirements**

When the 200-240 VAC power supply is used, a circuit breaker rated over 250V/20A should be provided for the single power supply of the CR-IR347. For grounding, the machine should be connected to the protective ground line of the indoor wiring.

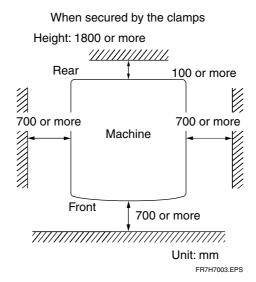
#### ■ Handling Precautions for Printed Circuit Boards and Scanning Optics Unit

When servicing a printed circuit board or scanning optics unit, be sure to wear an antistatic wristband to ground your body. If your body is not grounded, static electricity built on your body may cause damage to the electronic parts.

#### ■ Check for Installation Space

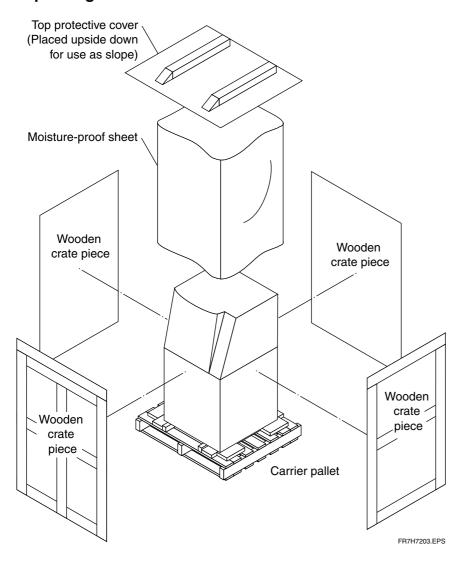


When not secured by the clamps



### 2.2 Unpacking and Unloading

#### **■** Unpacking



#### 2.3 Transfer



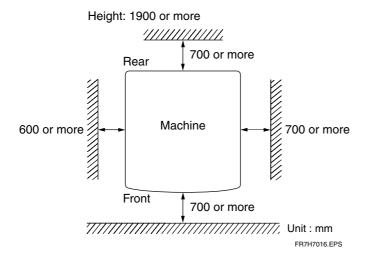
#### **CAUTIONS**

- When the machine is transferred with its casters, be sure to raise the adjustable feet of the machine all the way up.
- When bringing the machine into the installation place, support it so that it will not topple down. Because the machine is top-heavy, it may topple during transit.
- If the machine should be moved over some step or bump, move it as slowly as possible to avoid shock to it. Note that the step over which the machine may move over is about 10 mm high at most.

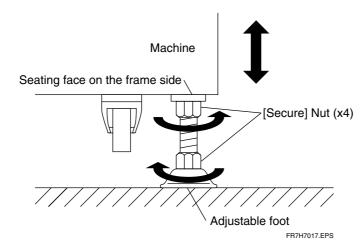
Bring the machine into the installation place.

#### 2.4 Temporary Placement

(1) Secure space required for installation procedures and temporarily place the machine.



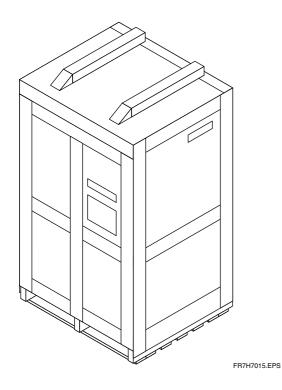
(2) Secure the machine with the adjustable feet in place



### 2.5 Checking the Items Supplied

Check whether all the items are supplied in accordance with the packing list that is contained in each carton. The service technician must keep the test result sheet.

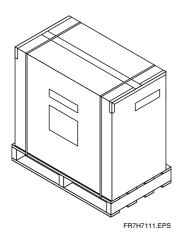
#### **■** Machine Main Body



Check	neck Item		Remarks
	Machine main body		
	Clamps		
CPU90E board (installed in the machine)		1	
IMG07B board (installed in the machine)		1	
	BSP08A board (installed in the machine)	1	
	DIM08A board (installed in the machine)	2	Only for machine with shipment control number of 5080 or later

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### ■ Separate Packaged Items



Check	Item	Qty.	Remarks
	Instruction Manual (for the machine main body)	1	
	Test Result Sheet	1	
	Floppy diskette (for machine- specific data)	1	
	Floppy diskette (PC MENU EDITOR)	1 set	
	Label	1 set	
	Hex head bolt (SUS 12x25)	8	
	Grip anchor (M12x50)	8	
	Spring washer (M12)	8	
	Plain washer (M12)	8	
	NK clamp (NK-18N, 13N, 10N)	4 for each	
	T4x8	6	For installing the optional board
	BR4x8	3	For installing the erasure lamp assembly. Two for spare.
	T4x12	4	For upper front cover and lower front cover
	T4x20	2	For retaining the interface cable (rear cover)
	Memory boards (MMA90A and MMB90A)	1 for each	Only for machine with shipment control number of 5079 or earlier
	Erasure lamp assembly	1	
	Light-collecting guide assembly (for the front)	1	
	Light-collecting guide assembly (for the back)	1	
	FUJI FILM Warranty Sheet	1	
	Power cable kit  100-200 V spec for Japan and US  100 V spec for Japan (JIS patient environment supported)  200-240 V spec for Europe (excluding UK)  200-240V spec for UK	1 (either model)	

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### ■ Optional Items

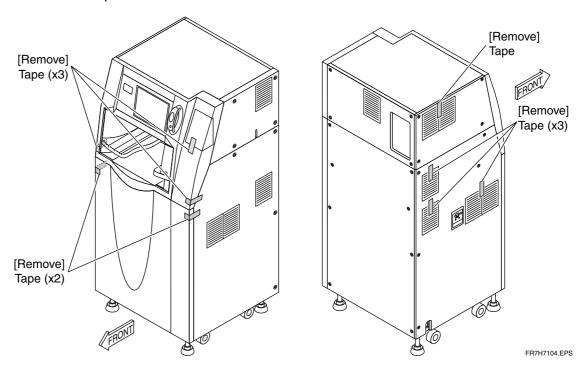
Check	Item	Qty.	Remarks
IMG08M board 1		1	LP interface board
IMG08H board 1 or 2		1 or 2	High-speed multi-frequency processing (MFP) board     High-speed mammography pattern enhancement (PEM) board
	HCP08A board	1	Compression/decompression processing board
	CPU90F/LAN90B board	1	Ethernet board, 100Base-TX Intelligent LAN board

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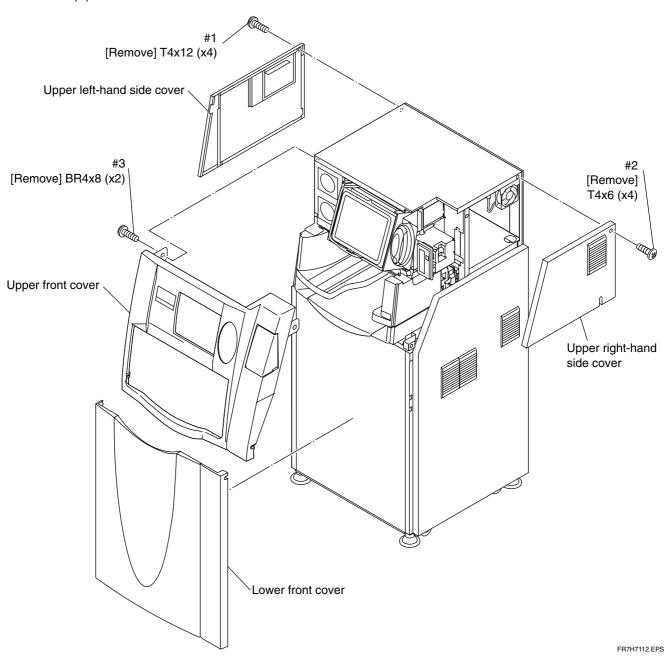
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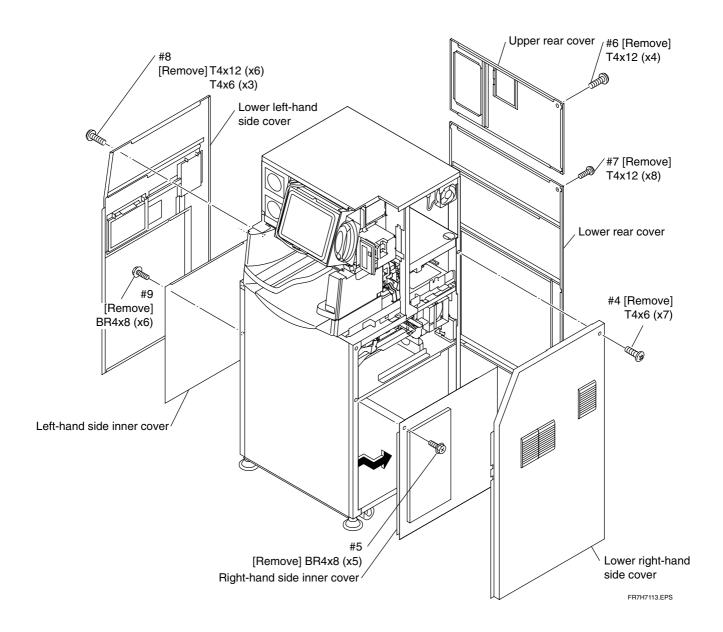
### 3. Removing the Covers

(1) Remove the tapes.



#### (2) Remove the covers.





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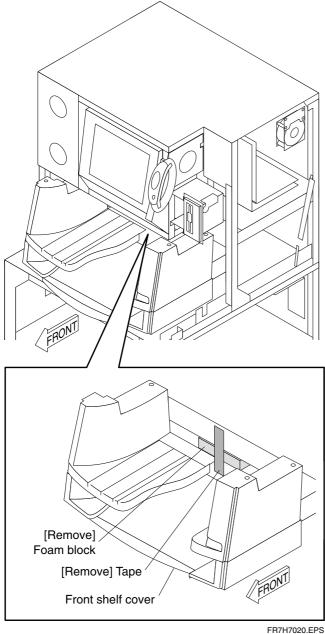
### **Unclamping**

#### **♦** REFERENCE **♦**

For unclamping, the procedures may be performed along the string attached to the clamps.

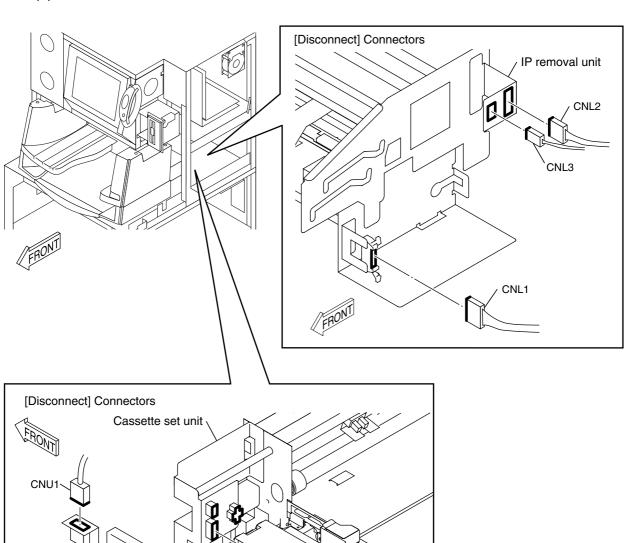
#### 4.1 **Front Shelf Cover (Front)**

Unclamp the clamps.



### 4.2 Pulling Out the Tray

(1) Disconnect the connectors.



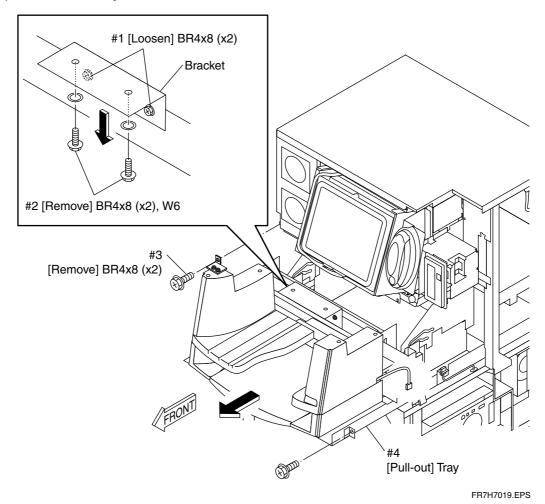
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CNSOLK1

CNK2

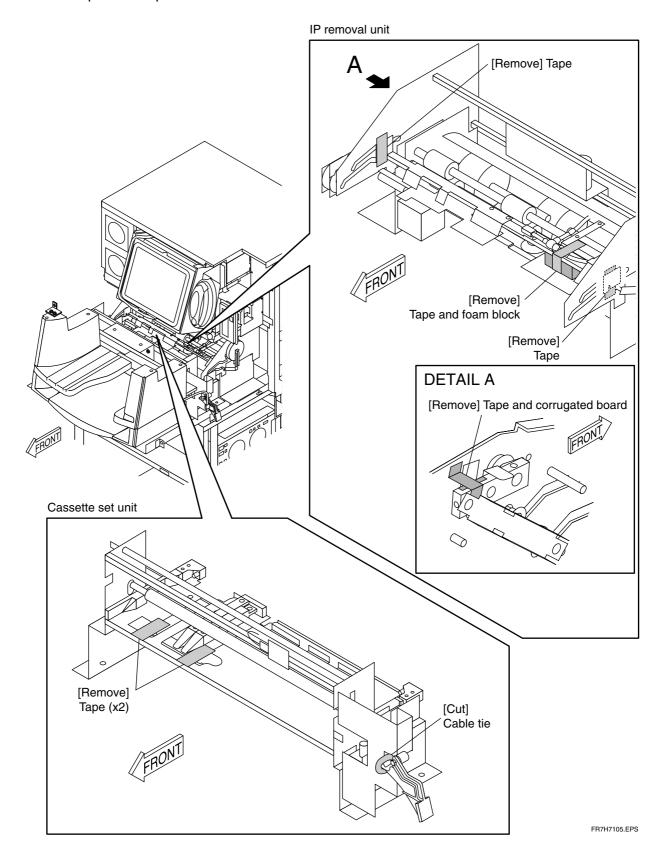
BCR08A CN1

#### (2) Pull out the tray.



## 4.3 Cassette Set Unit/IP Removal Unit (Front/Right-Hand Side/Left-Hand Side)

Unclamp the clamps.

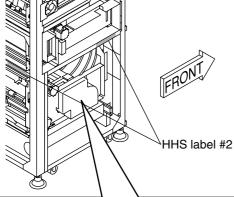


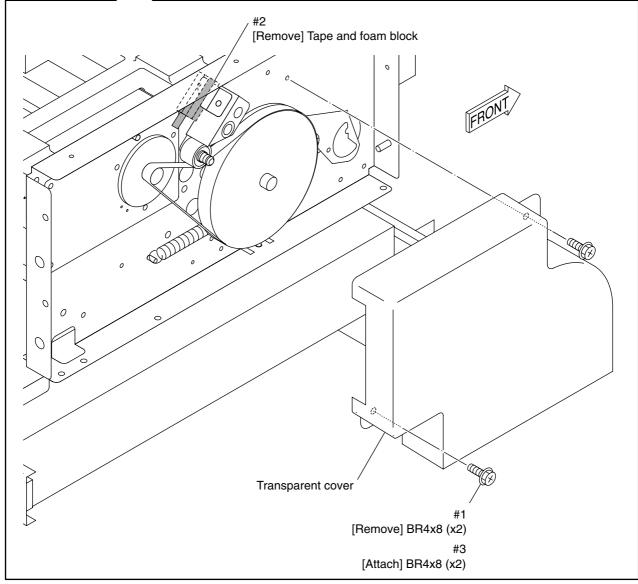
### 4.4 Pushing In the Tray

By reversing the procedures for pulling out the tray, push in the tray.

### 4.5 Subscanning Unit (Left-Hand Side)

Unclamp the clamps.

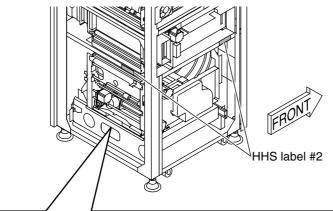


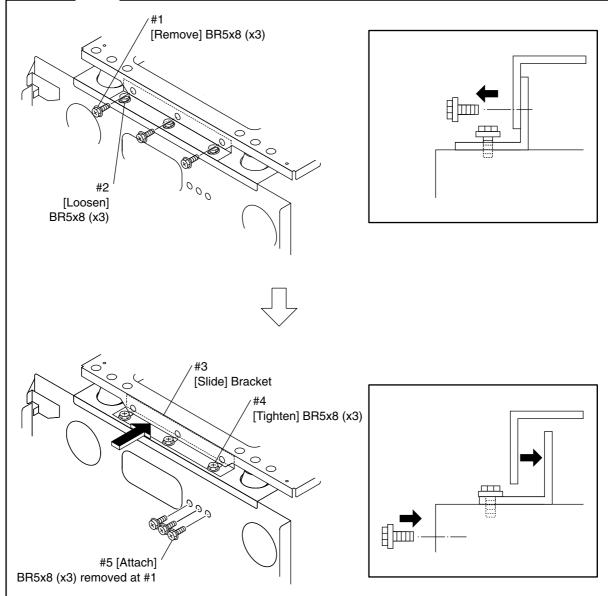


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### 4.6 Subscanning Unit (Rear)

Slide the subscanning unit retaining bracket.

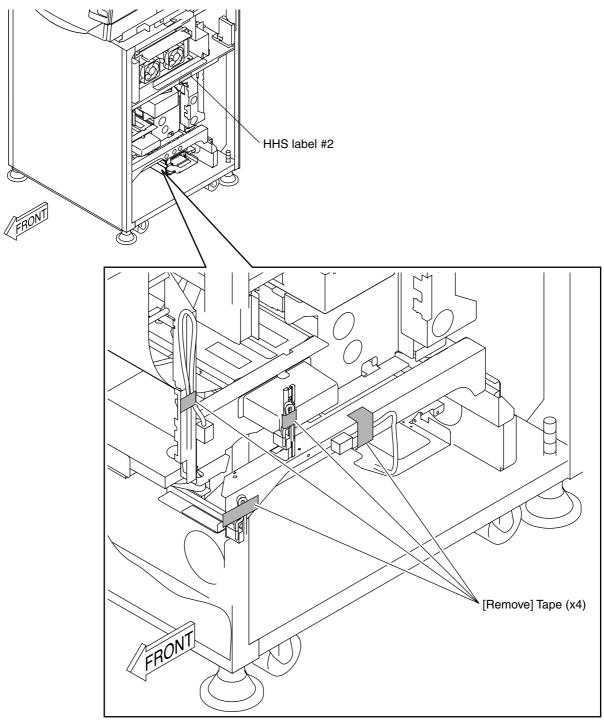




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### 4.7 Subscanning Unit (Right-Hand Side)

Remove the tapes.



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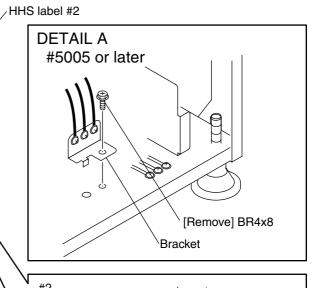
#### 4.8 **Pulling Out the Scanner Unit**

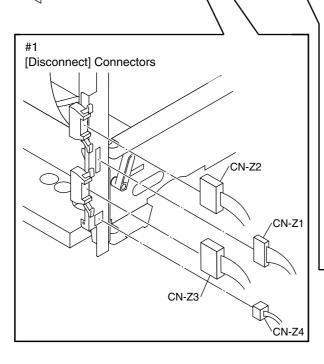


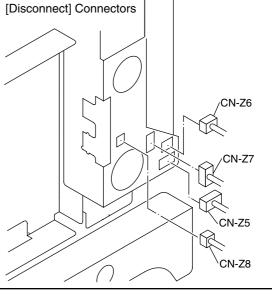
### **AUTION**

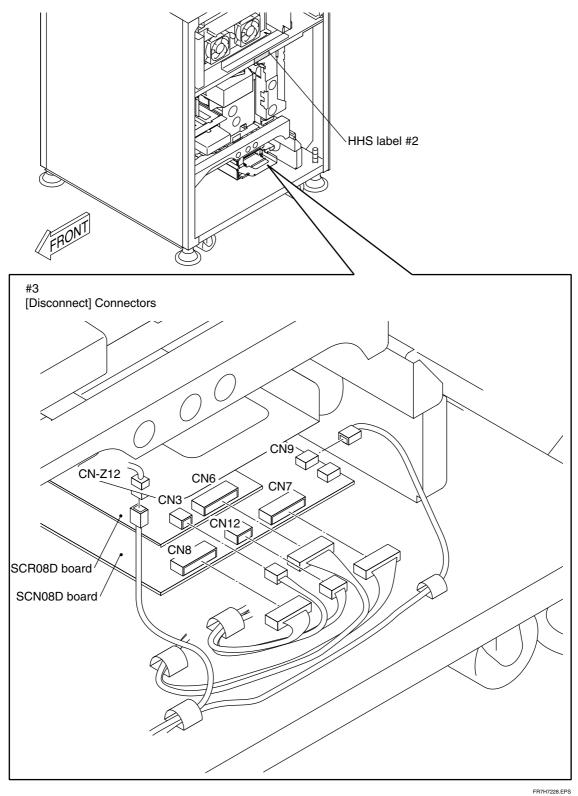
When servicing any printed circuit board, be sure to wear an antistatic wristband to ground your body. If your body is not grounded, static electricity built on your body may cause damage to electronic parts on the board.

## (1) Disconnect the connectors.

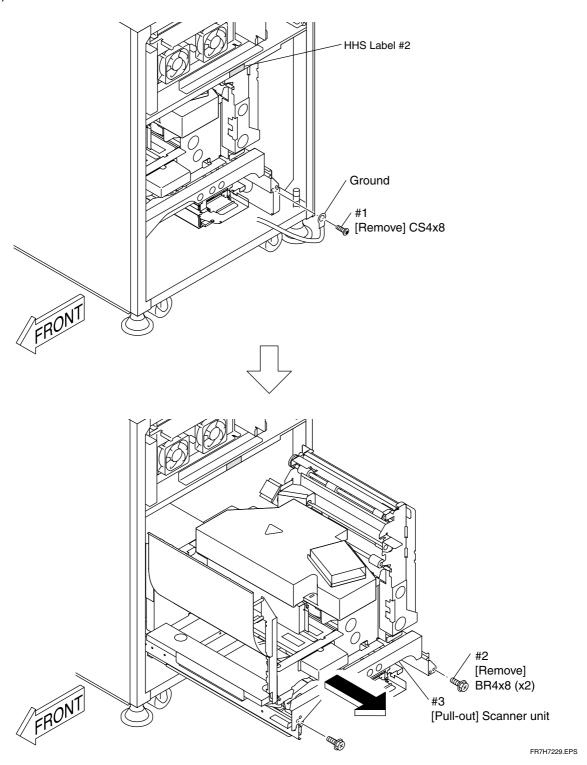








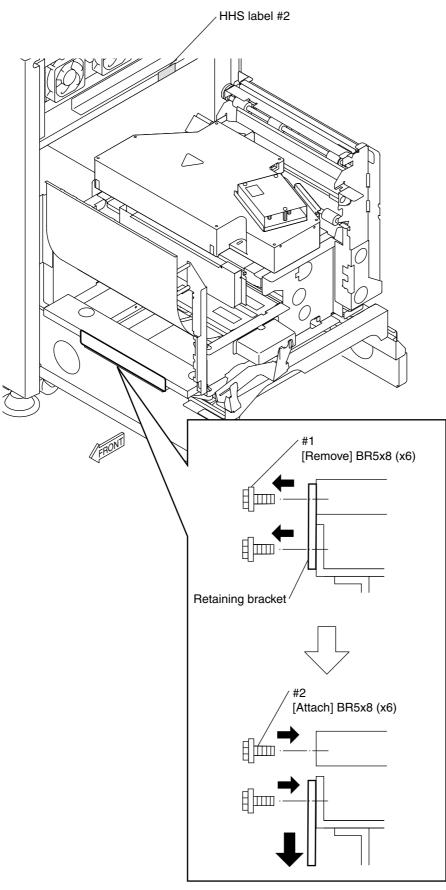
#### (2) Pull out the scanner unit.



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### 4.9 Subscanning Unit (Front)

Reposition the retaining bracket.

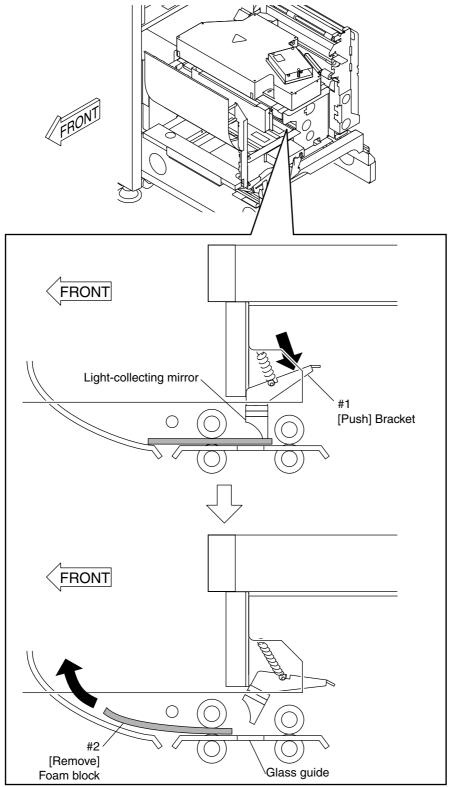


### 4.10 Subscanning Unit (Inside)

#### **♦** NOTE **♦**

Use care not to damage the light-collecting mirror and glass guide.

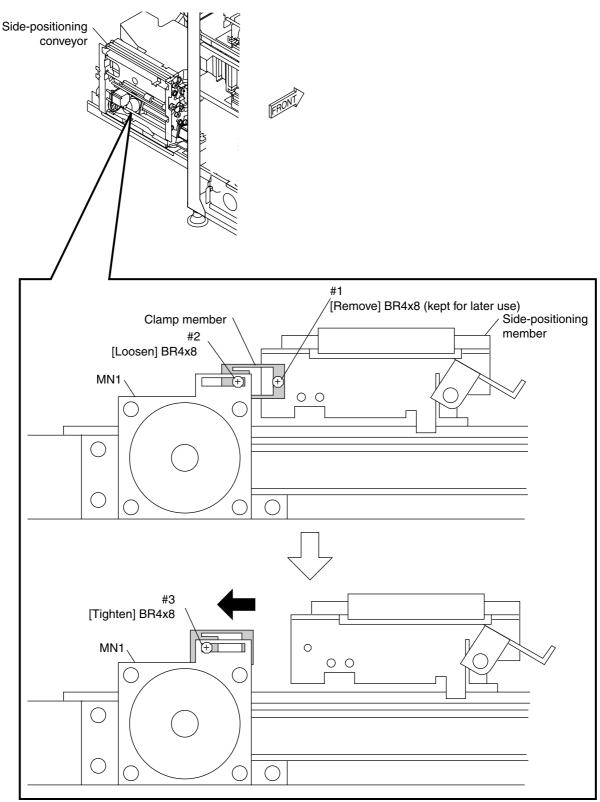
Remove the foam block.



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### 4.11 Side-Positioning Conveyor (Rear)

Reposition the clamp member.



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#### **♦** REFERENCE **♦**

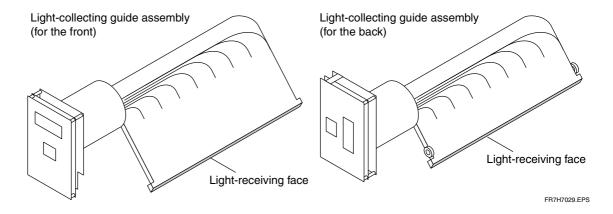
The screw removed should be kept separately for later use.

### 5. Installing the Separate Packaged Items



#### **CAUTION**

Never touch the incidence surface of the light-collecting guide even when you wear gloves.

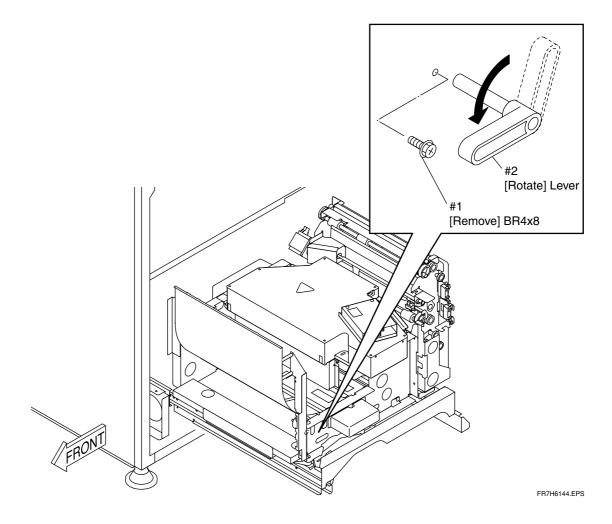


#### **♦ INSTRUCTION ♦**

When handling the light-collecting guide assembly, wear gloves.

# 5.1 Light-Collecting Guide Assembly (for the Front)

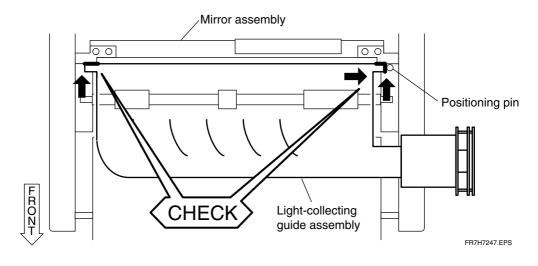
(1) Rotate the lever counterclockwise.

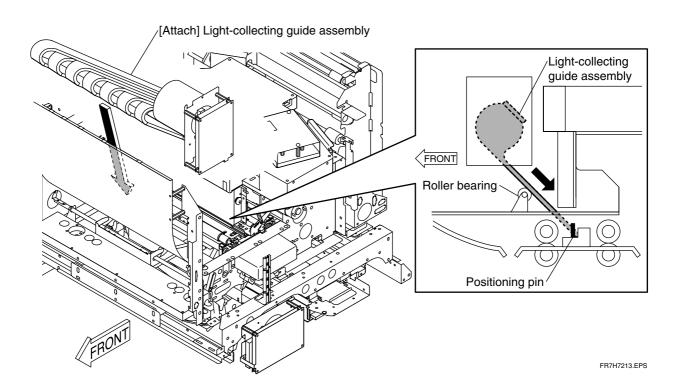


(2) Install the light-collecting guide assembly (for front surface).

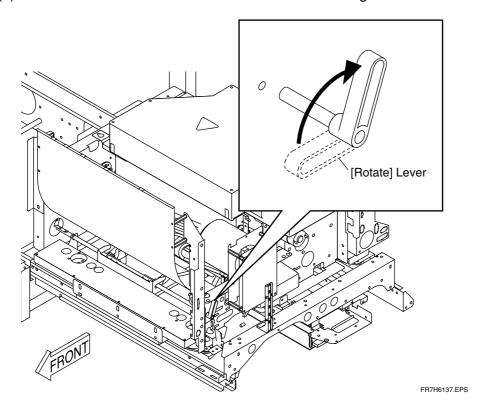
#### **♦ INSTRUCTION ♦**

When installing the light-collecting guide assembly, properly position it by pressing it against the mirror assembly and positioning pin.

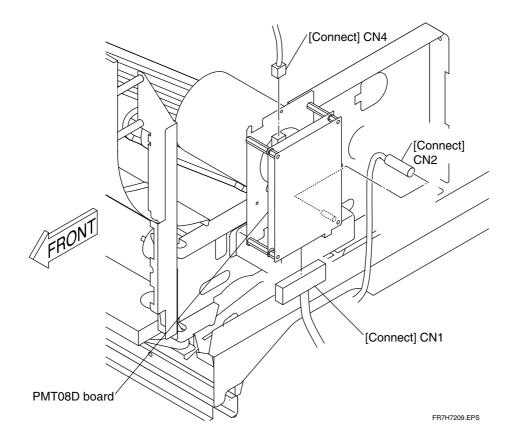




(3) Rotate the lever in the direction of the arrow in the figure below.

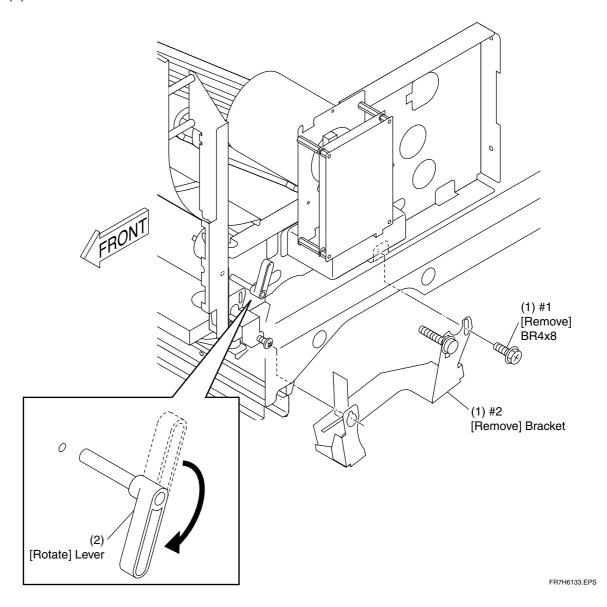


(4) Connect the PMT08D board connectors.



## 5.2 Light-Collecting Guide Assembly (for the Back)

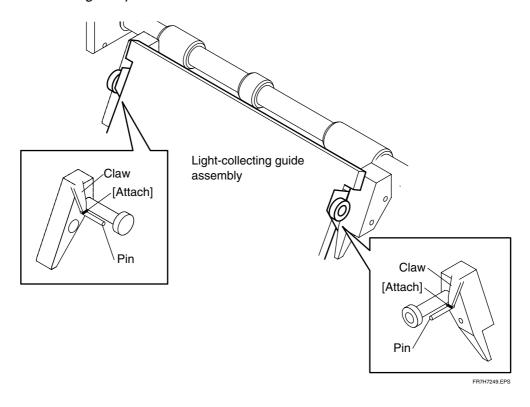
- (1) Remove the bracket.
- (2) Rotate the lever clockwise.

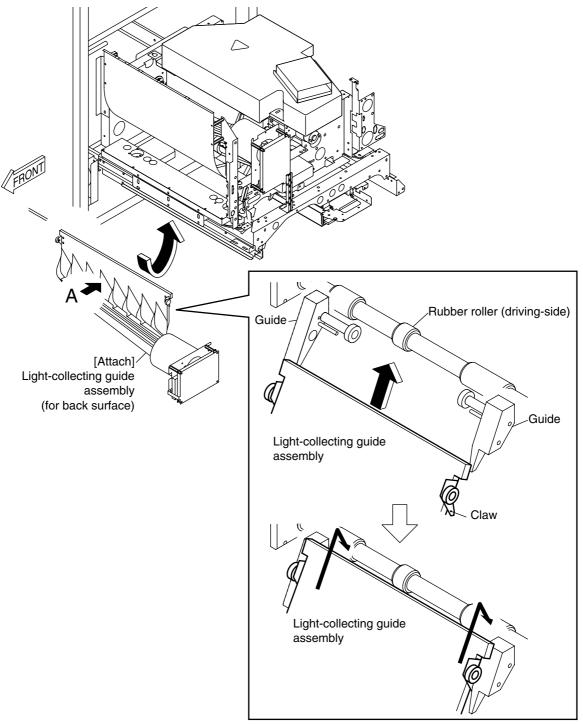


(3) Install the light-collecting guide assembly (for the back).

### **♦** NOTE **♦**

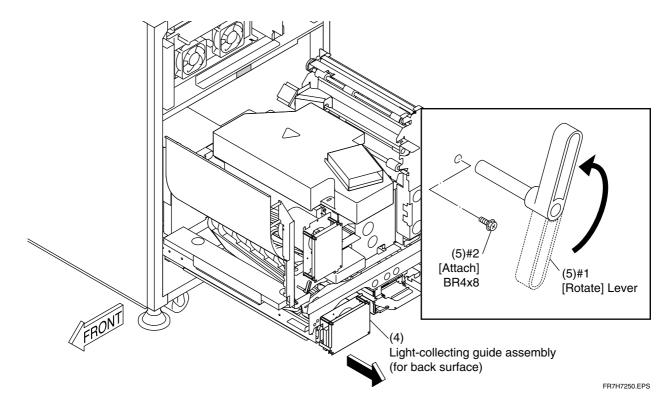
When installing the light-collecting guide assembly, ensure that its claws are positioned above the guide pins.





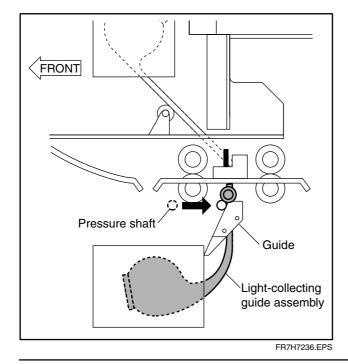
FR7H7248.EPS

- (4) Move the light-collecting guide assembly (for the rear) toward the reference plane.
- (5) Rotate the lever in the direction of the arrow in the figure below to secure the light-collecting guide assembly (for back surface).



#### **♦** REFERENCE **♦**

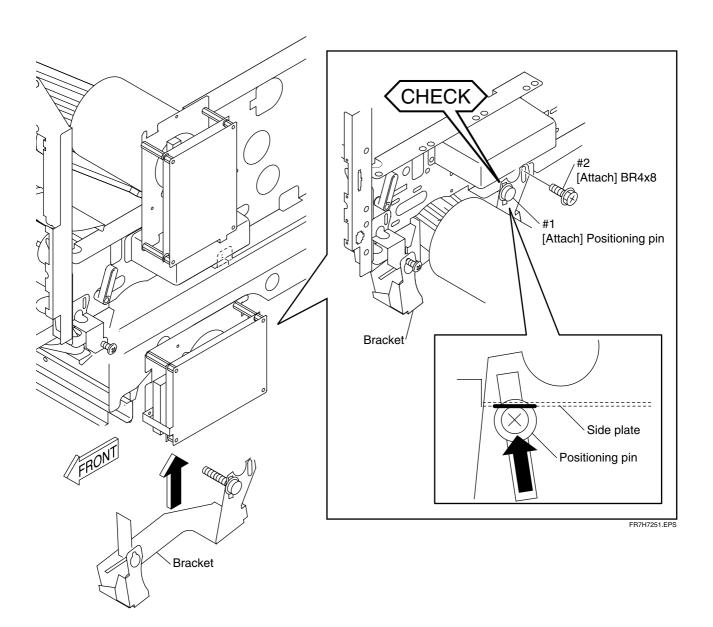
Rotating the lever causes the pressure shaft to secure the light-collecting guide.



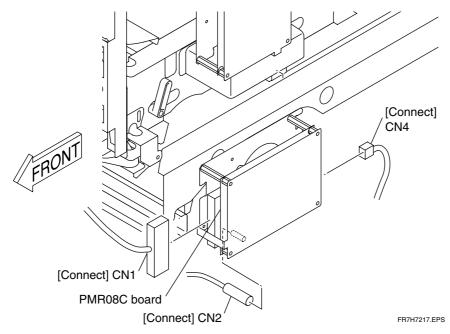
#### (6) Attach the bracket.

#### **♦ INSTRUCTION ♦**

When installing the bracket, secure it while pressing its positioning screw against the side plate.

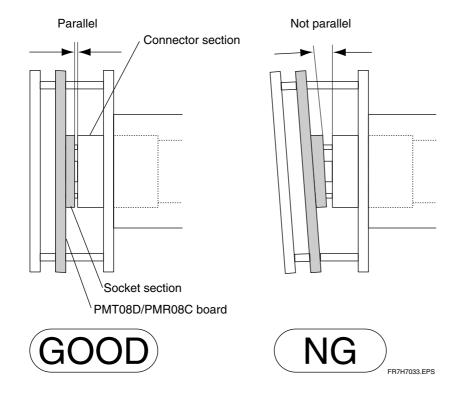


#### (7) Connect the PMR08C board connectors.



#### **♦ CHECKS ♦**

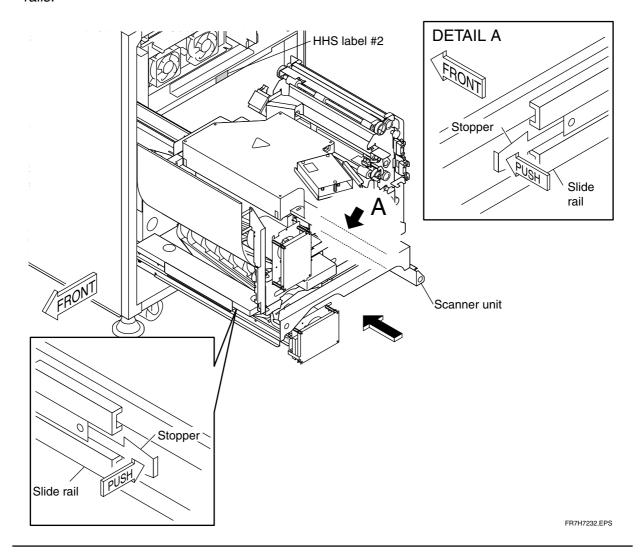
- Check the mounted position of the light-collecting guide assembly (for front surface).
- Check that the PMT08DPMR08C board socket section is parallel to the light-collecting guide connector section.



### 5.3 Pushing In the Scanner Unit

#### ♦ NOTES ♦

- When pushing in the scanner unit, exercise care so that the disconnected connectors and cables are not caught.
- Push the scanner unit all the way into the machine, while pressing the stoppers of the slide rails.



By reversing the pull-out procedures, push in the scanner unit.

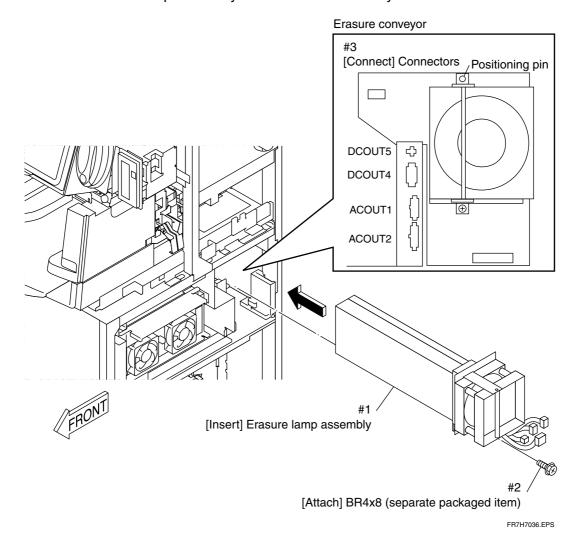
### 5.4 Erasure Lamp Assembly



### CAUTION

The erasure lamp should be handled carefully. If it is hit, the erasure lamp may be broken, so you may get injured.

Insert the erasure lamp assembly into the erasure conveyor.



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# 5.5 Memory Boards (Only for Machine with Shipment Control Number of 5079 or Earlier)

Because machines with shipment control numbers of 5080 or later have the memory board (DIM08A board) mounted by factory default, the board need not be mounted during installation.



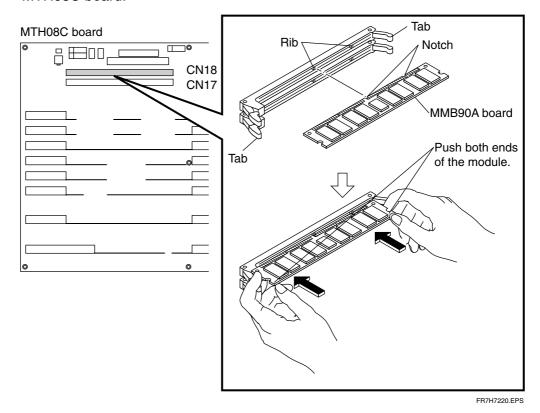
#### CAUTION

When installing the memory board, be sure to wear an antistatic wristband to ground your body. If your body is not grounded, static electricity built on your body may cause damage to electronic parts on the board.

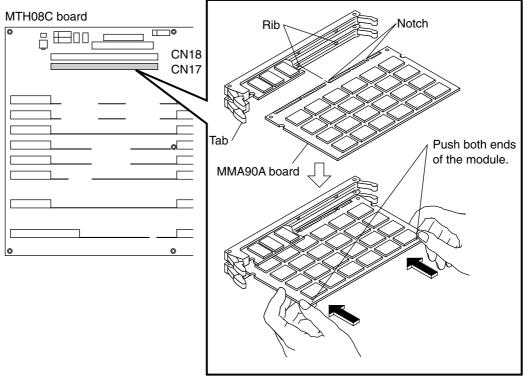
#### **♦** NOTE **♦**

When installing the memory board, pay attention to the following points.

- Do not touch the connector portion of the memory board, but grasp both ends of the board.
- Open the tabs of CN17/18, align the notches of the board to the ribs in the CN17/18 slot, and insert the memory board straight into the slot, while holding both ends of the board.
  - (1) Install the memory module (MMB90A board) into the connector slot (CN18) of the MTH08C board.



(2) Install the memory module (MMA90A board) into the connector slot (CN17) of the MTH08C board.



FR7H7219.EPS

#### **♦** CHECK **♦**

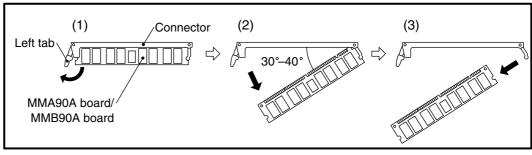
Make sure that the tabs of CN17 and CN18 have been closed and memory boards have been securely locked into place.

#### **♦** NOTE **♦**

To remove the memory module, take the following procedures. If the procedures are not observed, the connector tab(s) may be damaged.

- (1) Push out the left tab of the connector.
- (2) Press out the left end of the memory module at an angle of 30-40 degrees.
- (3) Remove the memory module.

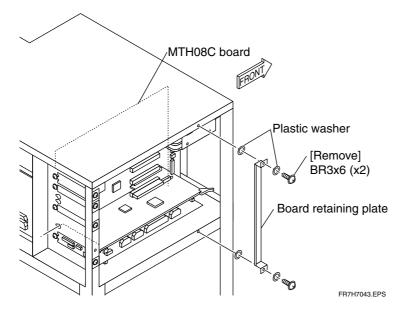
Top view



FR7H7231.EPS

# 6. Removing the Board Retaining Plate

Remove the board retaining plate.



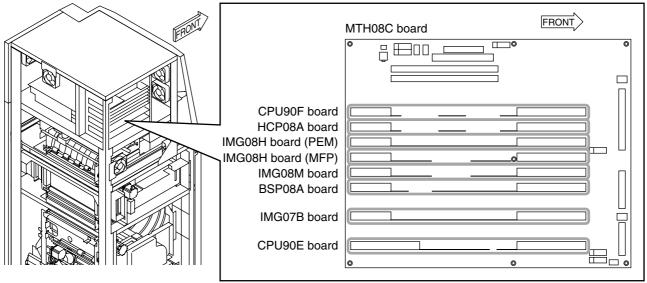
# 7. Setting the Boards



## **!** CAUTION

When servicing any printed circuit board, be sure to wear an antistatic wristband to ground your body. If your body is not grounded, static electricity built on your body may cause damage to electronic parts on the board.

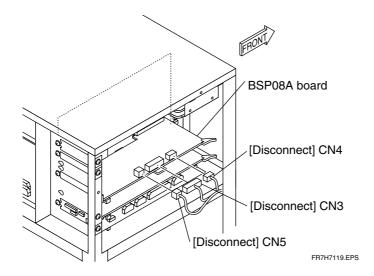
#### **■** Boards in the Controller



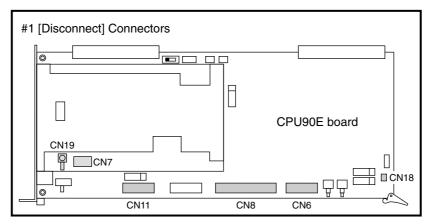
FR7H7226.EPS

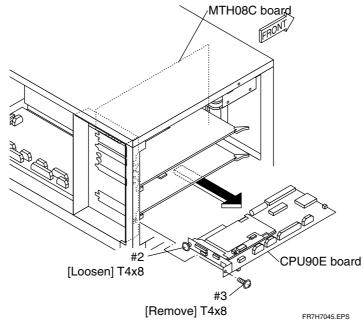
#### **■ CPU90E Board**

(1) Disconnect the connectors of the BSP08A board.



(2) Remove the CPU90E board.



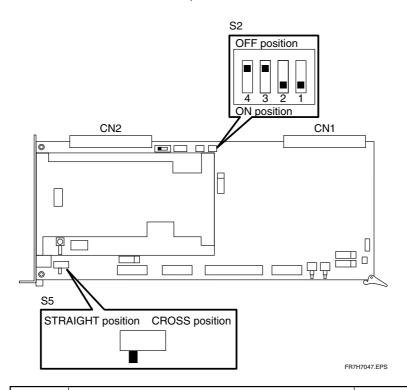


(3) Place bits 1 and 2 (battery backup switch) of S2 in the ON position.

#### **♦** NOTE **♦**

If bits 1 and 2 of S2 remain in the OFF position, the memory backup cannot be done, so that settings cannot be retained.

(4) Place S5 in the STRAIGHT position.



Setting	Function	Factory default	Installation setting
S1	Generic setup switch. The setup value is loaded and used by the software.	All bits OFF	All bits OFF
	S2-1 and S2-2 (Both should be the same setting.)     Sets to turn ON/OFF the battery backup function.	OFF	ON
S2	S2-3     Sets to turn ON/OFF the NMI signal issuance function of the MTH08C.     It should be turned OFF because the current MTH08C does not support the NMI signal issuance function.	OFF	OFF
	3) S2-4 Sets to turn ON/OFF the write into the boot ROM. This function is effective only when the Flash EEPROM is used as the Boot ROM; thus, it is not used at present.	OFF	OFF
S3	Issues manual reset.	-	_
S4	Issues manual NMI.	_	_
S5	Switches connection type (CROSS/STRAIGHT) of the ID-Network line.	Set in the STRAIGHT position.	Set in the STRAIGHT position.
S6	Switches the signal level (RS-422/RS-232C) of the IDT communication line.	Set in the RS-422 position.	Set in the RS-422 position.
S7	Sets to turn ON/OFF the power remote control function with the IDT.  1) S7-1 and S7-2 (Both should be the same setting.) Turns ON/OFF the power remote control function, from IR to IDT.	ON	ON
	<ol> <li>S7-3 and S7-4 (Both should be the same setting.)         Turns ON/OFF the power remote control function, from IDT to IR.     </li> </ol>	ON	ON

TR7H7007.EPS

(5) By reversing the procedures of step (1) and (2), reinstall the CPU90E board.

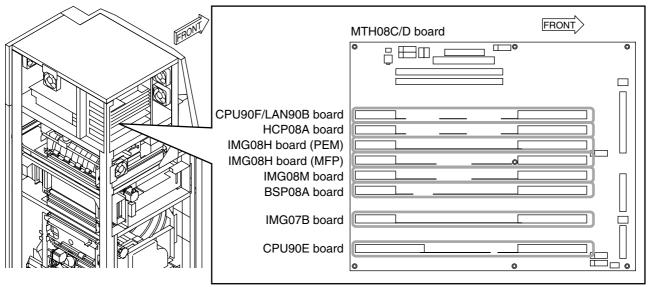
# 8. Installing the Boards



### CAUTION

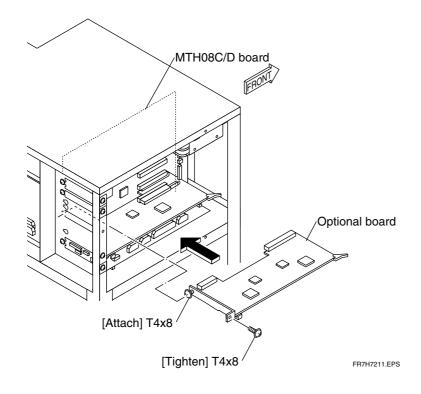
When servicing any printed circuit board, be sure to wear an anti-static wristband to ensure proper grounding. If not, static electricity built on the human body may cause damage to electric parts mounted on the board.

#### **■** Boards Locations in the Controller



FR7H7226.EPS

#### **■** Example of Installing the Optional Board



#### ■ Installing the optional boards

Install the following optional boards:

- IMG08M board (LP interface board)
- IMG08H board (high-speed multi-frequency processing board: MFP)
- IMG08H board (high-speed breast pattern processing board: PEM)
- HCP08A board (compression/decompression process board for network connection use)
- CPU90F/LAN90B board (network interface board for network connection use)

#### ■ Setting the CPU90F board

#### **♦** REFERENCE **♦**

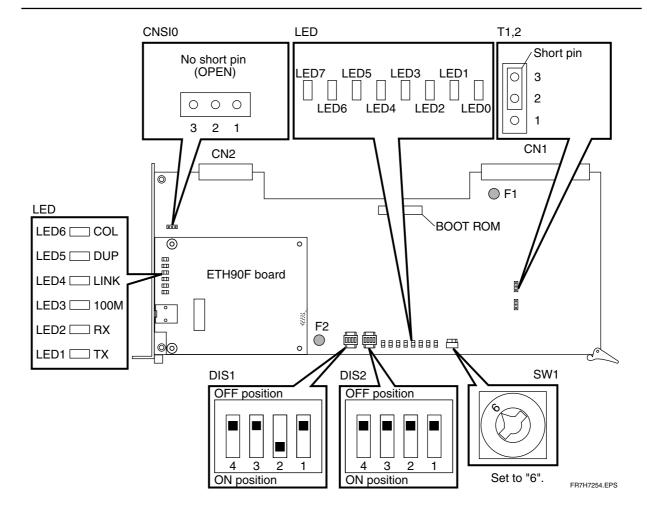
The following jumper and switch settings are employed by default.

CNSIO : Jumpers are removed (open). T1 and T2 : Pins 2 and 3 are shorted.

DIS1 : Switches 1, 3, and 4 are OFF. Switch 2 is ON.

DIS2 : All switches are OFF.

SW1 : "6".



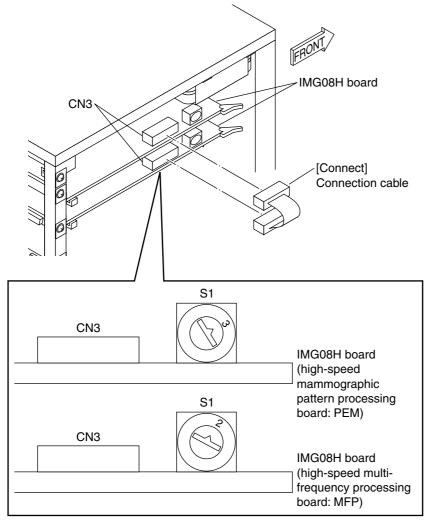
#### ■ Setting up the IMG08H board

#### **♦** NOTE **♦**

Connect the high-speed multi-frequency processing board (MFP) and high-speed mammographic pattern processing board (PEM) with a cable. If they are not connected together, no 20pix/mm image will be outputted.

#### **♦** REFERENCE **♦**

S1 is set to "2" by factory default.



FR7H7243.EPS

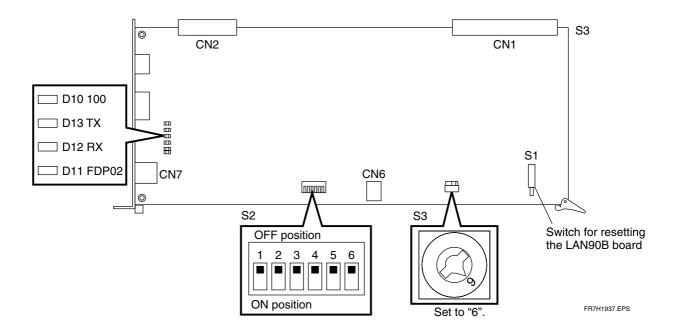
### ■ Setting the LAN90B board

### $\Diamond$ REFERENCE $\Diamond$

The following jumper and switch settings are employed by default.

S2 : All switches are OFF.

S3 : "6".

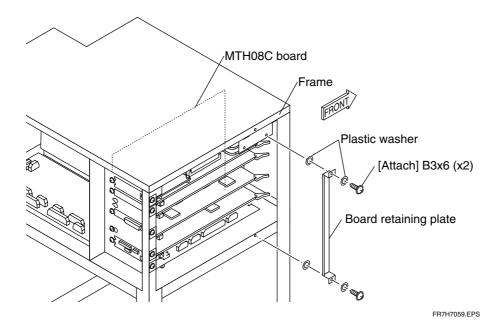


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# 9. Installing the Board Retaining Plate

Install the board retaining plate.

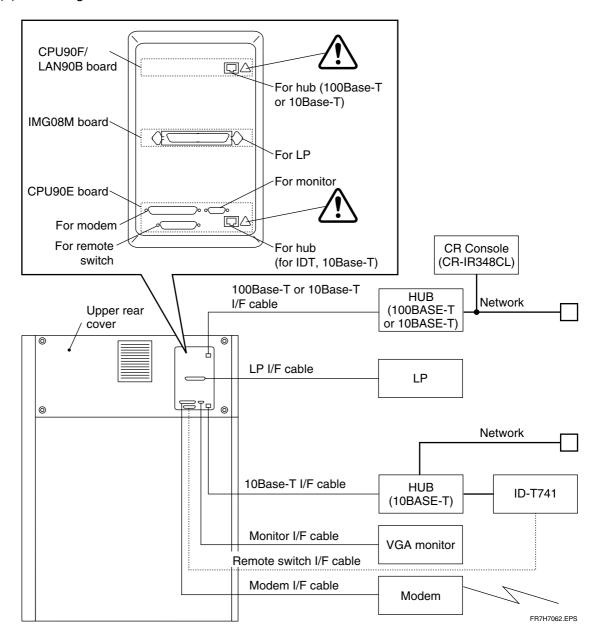


## 10. Connecting the Interface Cables



### CAUTIONS

- A telephone cable should not be plugged into the connector marked by "ATTENTION". Only 10Base-T or 100Base-T cables (IEC950/UL1950-listed) are suited for connection to this machine.
- For the network cable connected to the CPU90F board, a shielded type (STP) should be used.
- For the network cable connected to the LAN90B board, a shield type (STP) or an unshielded type (UTP) should be used.
  - (1) Install the upper rear cover.
  - (2) Referring to the illustration below, connect the interface cables.



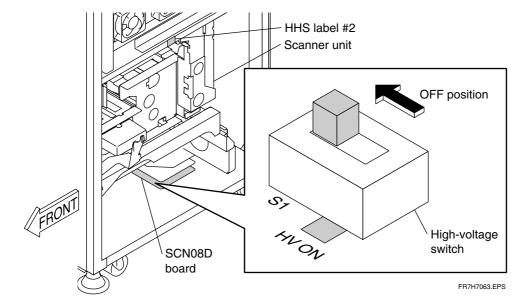
# 11. Turning OFF the High-Voltage Switch



### CAUTION

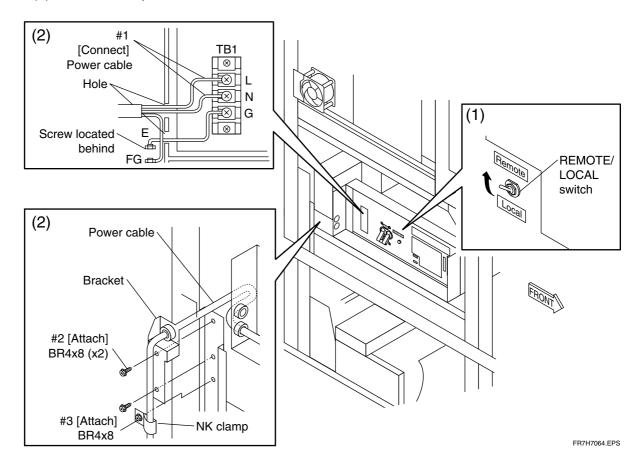
Before powering ON the machine with the covers removed, be sure to turn OFF the high-voltage switch. If the machine is powered ON with any of the covers removed, the photomultiplier will be damaged.

Turn OFF the high-voltage switch (S1) of the SCN08D board.



# 12. Connecting the Power Cable

- (1) Place the REMOTE/LOCAL switch in the REMOTE position.
- (2) Connect the power cable to TB1.



# 13. Checking the Resistance Values



### **WARNING**

Before measuring the resistance value, unplug the power plug or power supply terminal from the outlet or power distribution switchboard.



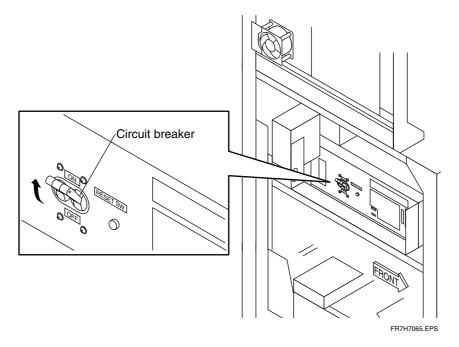
#### CAUTION

If anything abnormal is found with the result of power-supply short checks, refer to the "Troubleshooting Volume" to take remedial action, and then proceed to the next step.

#### **♦** REFERENCE **♦**

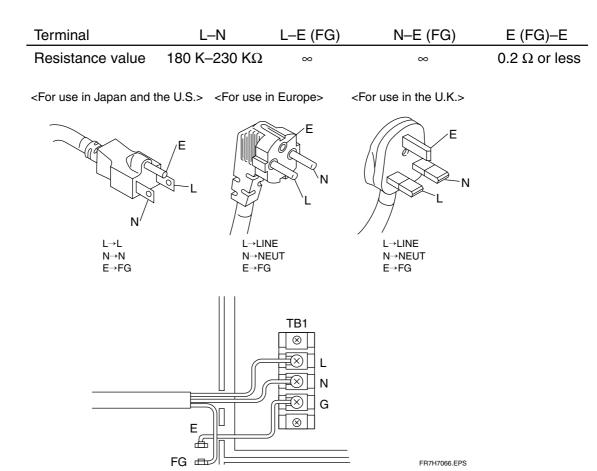
With this machine, it is not necessary to change the line voltage setting according to differing power supplies (100 V or 200-240 V).

(1) Turn ON the circuit breaker.



#### (2) Measure the resistance value.

If the specified value shown in the table below is not met, undo the power supply hookup and implement it again.

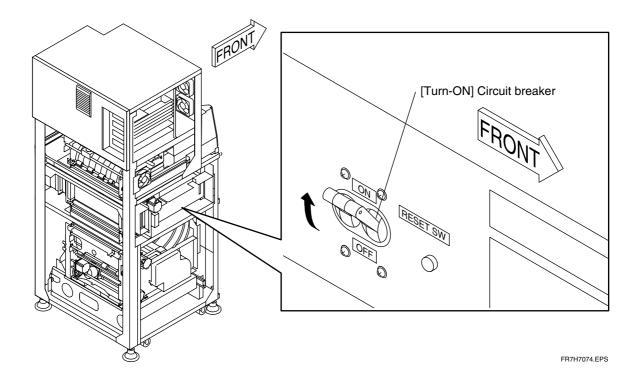


# 14. Powering ON

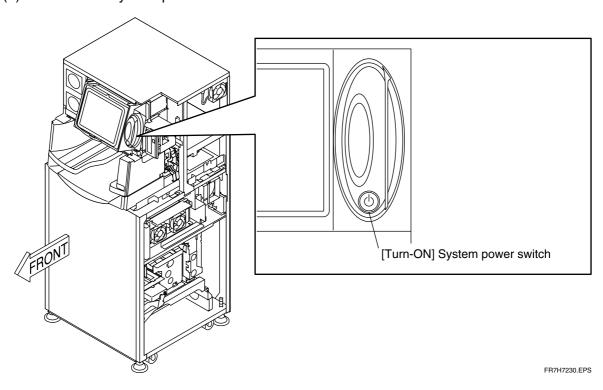
### ♦ REFERENCE ♦

If HV OFF error or IDT/LP connection line error occurs during the initialization sequence, touch the Confirm button.

- (1) Turn OFF the circuit breaker.
- (2) Plug the power plug to the outlet.
- (3) Turn ON the circuit breaker.



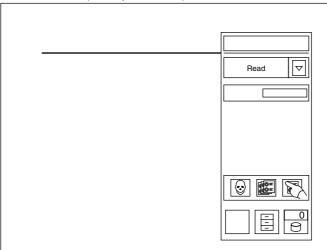
### (4) Turn ON the system power switch.



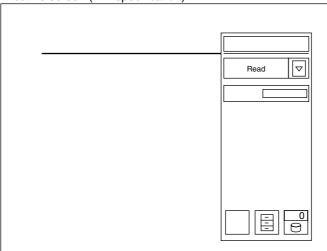
### $\Diamond$ REFERENCE $\Diamond$

The screen after normal startup of the machine is as shown below.

Routine screen (CSL specification)



Routine screen (IDT specification)

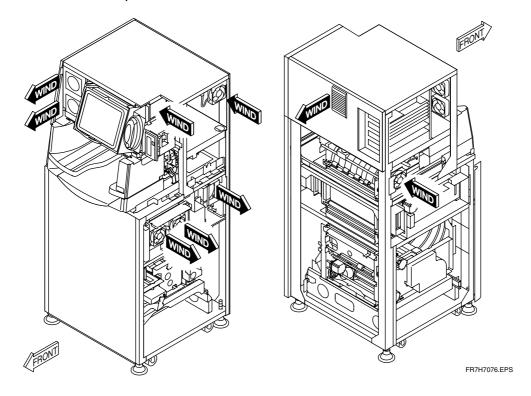


# 15. Checking the Fan Operation

### ♦ REFERENCE ♦

For the exhaust fan attached to the erasure lamp assembly, check its operation during IP conveyance checks.

Check the fan operation.



## 16. Measuring and Adjusting the Voltage

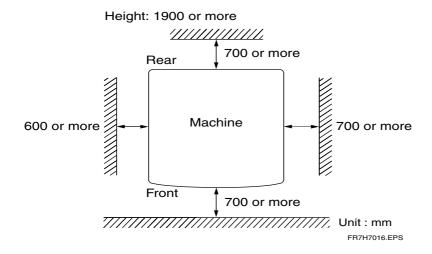


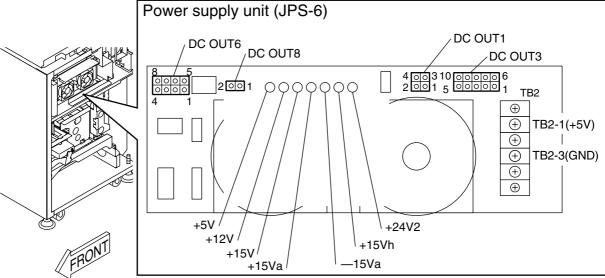
#### WARNING

To avoid electric shock hazards from high voltage, observe the following precautions.

- Do not touch the power supply terminals.
- When making voltage measurements, do not touch the probes (metal portions) of the tester.

Measure the voltages at the following points. If the voltage measured differs from the specified value, rotate the associated voltage adjustment trimmer to adjust it as appropriate.

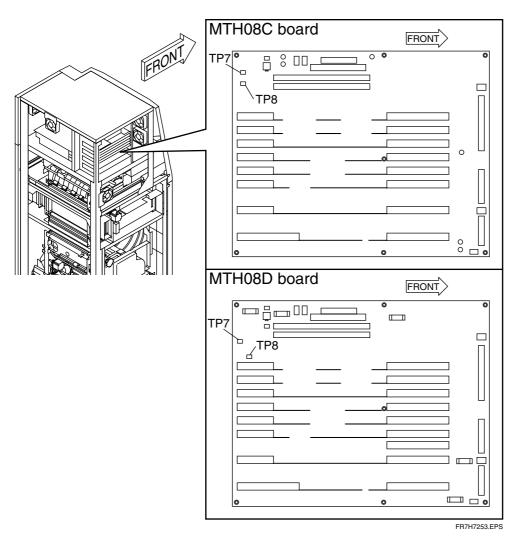




FR7H7252.EPS

Measurement location	Standard value	Voltage adjustment trimmer
MTH08C/D TP7-TP8	5.00 – 5.10V	+5V

TR7H7017.EPS



# 17. Clearing the Backup Memory

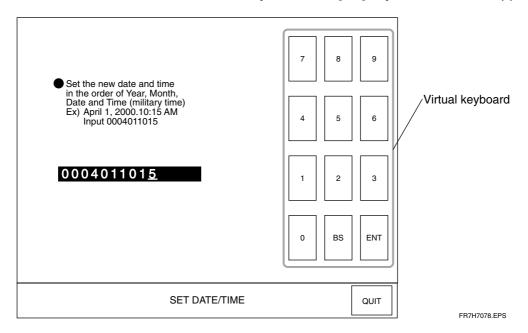
#### **♦** *NOTE* **♦**

Unless the machine is powered OFF and back ON, the backup memory will not be cleared.

- (1) Start the M-Utility.
- (2) [8] [ENT] [1] [ENT]
- (3) [1] [ENT]
- (4) Repeat [0] [ENT].
  - The M-Utility quits.
- (5) Turn OFF the system power switch and back ON.

# 18. Setting the Date and Time

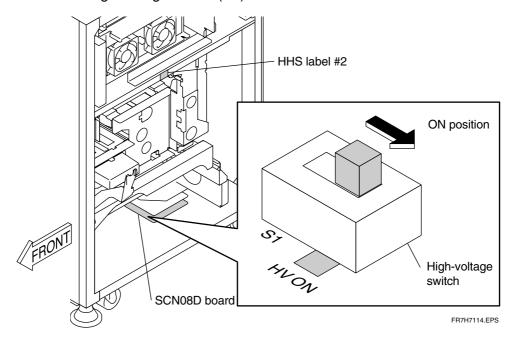
- (1) Start the U-Utility.
- (2) [Date/time setup]
- (3) Touch the virtual keyboard to enter the current date and time.
  - Example) When the current date and time is April 1, 2000, 10:15 am.
    - [0] [0] [0] [4] [0] [1] [1] [0] [1] [5]
- (4) [ENT]
  - ☼ When the setting is confirmed, OK appears below the entry field.
    If the date or time is entered incorrectly, touch the [BS] key to correct it as appropriate.



(5) [Return]

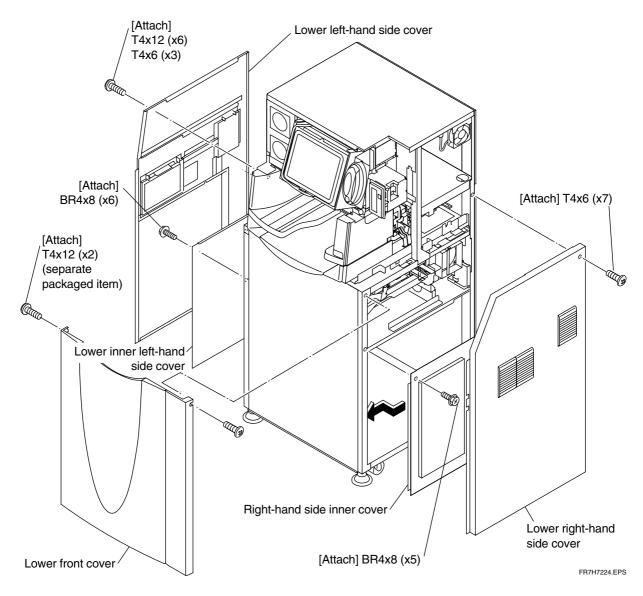
# 19. Turning ON the High-Voltage Switch

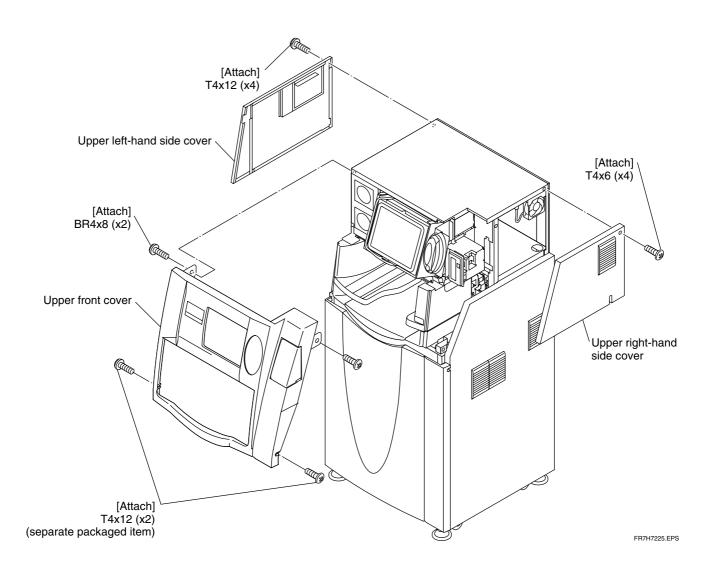
- (1) Turn OFF the system power switch.
- (2) Turn ON the high-voltage switch (S1) of the SCN08D board.



# 20. Installing the Covers

(1) Install the covers.

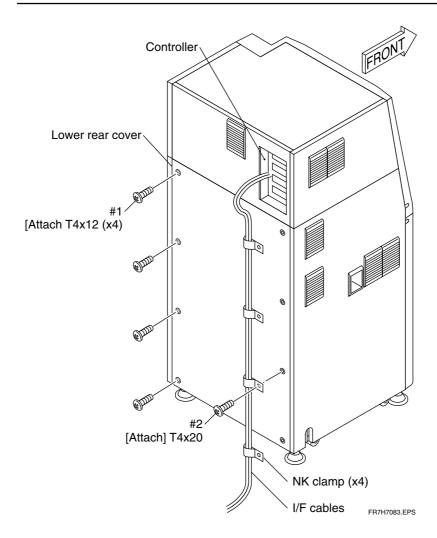




- (2) Install the lower rear cover.
- (3) Using the NK clamps (separate packaged item), secure the I/F cables onto the lower rear cover.

### **♦** REFERENCES **♦**

- The size of the NK clamps used should be determined according to the number of I/F cables.
  - NK clamps that are left unused should be kept separately for later use.
- The mounting screws (T4x20), supplied as the separate packaged item, should be used.



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## 21. Setting the Configuration

This section describes the configuration items that may be set when the machine is configured as follows.

- IDT connection
- Printer connection is implemented.

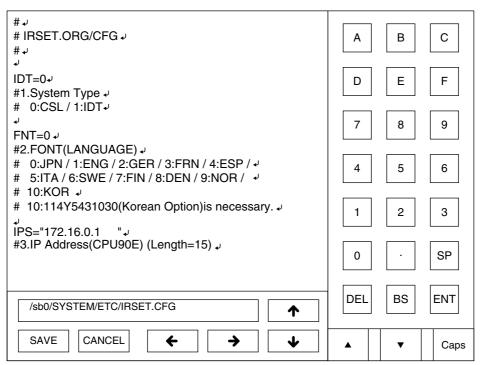
#### **♦ INSTRUCTIONS ♦**

- For the CSL type, perform menu editor setting.
  - "Appendix 3. Menu Editor Setting"
- For the CL connection type, perform CR Console (CR-IR348CL) connection.
  - "Appendix 4 Procedures for Connecting with CR Console (CR-IR348CL) in "Installation Volume"

### **♦** REFERENCES **♦**

- When network connection is established
- [Appendix 1]
- When other settings are made
- [Maintenance Utility Volume]

- (1) Start the M-Utility.
- (2) [2] [ENT] [1] [ENT]



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(3) Perform SYSTEM (IRSET.CFG) settings as appropriate.

### ● SYSTEM setup items

Item No.	Item	Initial value	Setup description	Parameters/Remarks
1	IDT	1	Switching between IDT connection type and CSL function built-in type	0: CSL 1: IDT
2	FNT	0	Language setting	0: Japanese 1: English 2: German 3: French 4: Spanish 5: Italian 6: Swedish 7: Finnish 8: Danish 9: Norwegian 10: Korean (optional software required)
3	IPS	172.16.0.1	IP address of the CPU90E board (IP address for network connection)	<note> The setup value should always be described in fifteen digits justified to the left. If the number of digits is less than 15, space should be added to meet the 15-digit requirement. "172.16.0.1\triangle \triangle \triang</note>
4	IPI	172.16.0.2	IP address of the CPU90F board (IP address for network connection)	<notes> <ul> <li>The setup value should always be described in fifteen digits justified to the left. If the number of digits is less than 15, space should be added to meet the 15-digit requirement.</li> <li>The IP address should always be set even if the CPU90F board (optional) is absent (default value).</li> <li>"172.16.0.2 △△△△△ (△: space)</li> </ul> </notes>
5	ILA	1	CPU board setting for the IDT connection destination	0: CPU90E 1: CPU90F (optional)
8	SID	А	Reader number (A through Z: Unique symbol)	<reference> When multiple FCR readers are connected within the same network, a unique symbol (A through Z) is assigned to each of the readers, so that it is displayed as the first digit of the image number on the output form, to which the reader of the image data designation can respond.</reference>
12	XRY	0	Message setting for overexposed IP reading	0: LOG & MESSAGE 1: LOG ONLY 2: NONE <note> Setting change is prohibited.</note>
37	PCL	0	Clock during LP-I/F output	0: 1μ sec (<60m) 1: 2μ sec (>60m)
44	ID_ DST	0	Distribution code setting	0: DISABLE 1: ENABLE

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(4) Touch [SAVE].

- (5) [2] [ENT]
- (6) Perform PRINT (FILMFMT.CFG) settings as appropriate.

### ● PRINT setup items

Item No.	Item	Initial value	Setup description	Parameters/Remarks
6	HN	FUJI FILM HOSPITAL	Institution name	60 characters <reference> It indicates the institution name displayed when "2. FNT" of SYSTEM is set to other than "0".</reference>
7	HP	9578 8E6D 8374 8343 838B 8380 9561 8940 8140 8140 8140 8140 8140 8140 8140	Institution name in Kanji	S-JIS 30 bytes (up to 15 full-width characters) <references>  • It indicates the institution name displayed when "2. FNT" of SYSTEM is set to other than 0".  • To enter an institution name in Kanji, the Shift-JIS code should be entered with every four digits delimited by space. It should be noted that if 15 characters of Shift-JIS space code (8140) are entered in "7. HP", the institution name that is set in "6. HN" is displayed.</references>
35	FD 1824A	0020	Position rotation designation for 18 x 24 cm (left-hand image) areas 0 and 1	The area position rotation is specified by four digits.
35	FD 1824B	1030	Position rotation designation for 18 x 24 cm (right-hand image) areas 0 and 1	The area position rotation is specified by four digits.
37	EM	2	"EneSub." parameter/PEM parameter output.	0: NO 1: YES (EneSub.) 2: YES (PEM)

TR7H7015.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
42	MBF	1	18x24cm 2-on-1 mammo format image scaling factor setting	0: 86%/1: 100% <format 0:86%="" for="">  Left image Right image  <format 1:100%="" for="">  Left image Right image</format></format>
43	MFG1	0	Single mammo format image interval setting	0-50 (0.1 mm) Image
44	MFG2	0	2-on-1 mammo format image interval setting	0-50 (0.1 mm)  Left image Right image

TR7H7018.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks	
45	MFG4	O	4-on-1 mammo format image interval setting	Image Image Image	
46	MFR1	1	Single mammo format image frame setting	0: Without image frame/1: With image frame <0: Without image frame>  Image  <1: With image frame>  Image	

TR7H7019.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
47 MF	FR2	1	2-on-1 mammo format image frame setting	0: Without image frame/1: With image frame <0: Without image frame>  Left image Right image  <1: With image frame>

TR7H7020.EPS

- (7) Touch [SAVE].
- (8) Turn OFF the system power switch and back ON.

## 22. Checking for Image Problems

### ■ Check for Nonuniformity, Sensitivity, and Density

(1) Expose two IPs of all sizes found at the institution (both ST and HR types). Expose the first in the normal direction, and the second in a 180-degree rotated orientation.

The IP exposure conditions are as follows.

OST

Dose: 1 mR
X-ray tube target: Tungsten
Distance: 1.8 m
Voltage: 80 kV
Current: 50 mA
Time: 0.013 sec

OHR

• Dose: 20 mR

• X-ray tube target/filter: Molybdenum/molybdenum

Distance: 0.55 m
 Voltage: 28 kV
 Current: 100 mA
 Time: 0.053 sec

(2) Using the test menu, record and output an image.

OST

"感度" (for Japanese version)/"SENSITIVITY" (for versions other than Japanese)

OHR

"感度-1" (for Japanese version)/"SensitivityHQ" (for U.S. version)/"SENSITIVITY2" (for versions other than Japanese and U.S.)

(3) Check to ensure that there is no nonuniformity on the output film or the image on the image monitor .

### **♦ CHECK ♦**

Check for nonuniformity.

If any nonuniformity is found, refer to "10. Troubleshooting Procedures Based on Abnormal Image" in the "Troubleshooting" volume.

(4) Using the output film, check the sensitivity.

### **♦** CHECK **♦**

Make sure that the S value on the film is held within the following range.

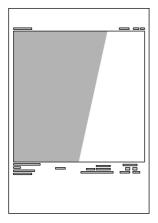
ST:  $140 \le S$  value  $\le 260$  HR:  $84 \le S$  value  $\le 156$ 

(5) Make sure that there is no density unbalance in the image of the output film.

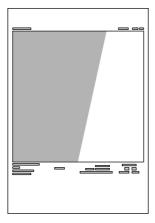
#### **♦ CHECK ♦**

Make sure that there is no density unbalance in the main scan direction. If any density unbalance is found, compare the films outputted from two IPs of the same size to isolate its probable cause.

If the density unbalance positions in the main scan direction are the same
 The culprit is an improper mounting of the light-collecting guide assembly.

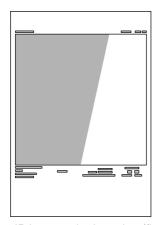


IP in normal orientation (first)

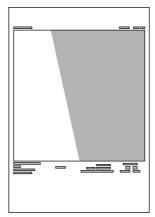


IP in 180-degree rotated orientation (second)

If the density unbalance positions in the main scan direction are different
 The exposure-related component(s) may be a probable cause.



IP in normal orientation (first)



IP in 180-degree rotated orientation (second) FR7H3747.EPS

#### ■ Check for Jitter and HR

(1) Place steel rules and a washer on IPs of all sizes found at the institution, and expose them. (Both ST and HR types. For the layout, see the illustration below.)

The IP exposure conditions are as follows.

OST

Dose: 1 mR
X-ray tube target: Tungsten
Distance: 1.8 m
Voltage: 80 kV
Current: 50 mA
Time: 0.013 sec

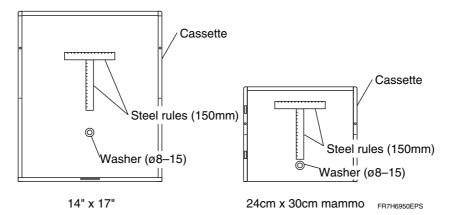
#### OHR

• Dose: 20 mR

• X-ray tube target/filter: Molybdenum/molybdenum

Distance: 0.55 m
 Voltage: 28 kV
 Current: 100 mA
 Time: 0.053 sec

The layout of the steel rules and washer is shown below.



(2) Using the test menu, record and output an image.

OST

"画像フォーマット" (for Japanese version)/"IMAGE FORMAT" (for versions other than Japanese)

OHR

"画像フォーマット-2" (for Japanese version)/"BREAST, L (DSR)" or "BREAST, R (DSR)" (for U.S. version)/"IMAGE FORMAT2" (for European version)

(3) Make sure that there is no jitter in the image of the border and steel rules on the output film.

#### **♦ CHECK ♦**

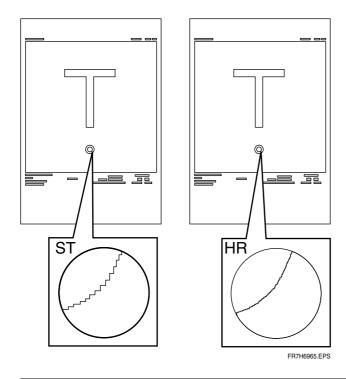
Check for jitter.

If any jitter is found, refer to "10. Troubleshooting Procedures Based on Abnormal Image" in the "Troubleshooting" volume.

(4) Compare the images of the washer for ST and HR to ensure that the image for HR is smoother.

### **♦** CHECK **♦**

Using a loupe, make sure that the image of the washer's curvature for HR appears smoother than that for ST.

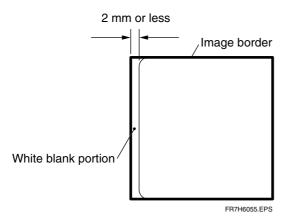


#### ■ Check for Format

Make sure that the white blank portion, as measured from the outermost side of the image border of the output film, is 2 mm or less in actual size on the IP.

#### **♦ CHECK ♦**

Make sure that the white blank portion is 2 mm or less. If anything abnormal is found, refer to the "Troubleshooting" volume.



#### **♦** NOTE **♦**

The distance measured on the film may differ from the actual size on the IP, depending on the reading size or film size. Using the distance measured on the film and the reduction factor for the film, calculate the actual size on the IP. Compute the actual size on the IP according to the following formula.

Actual size on IP = Measured value x 
$$\frac{100}{\text{Reduction factor (\%)}}$$

### **♦** REFERENCE **♦**

For example, when a two-in-one image of 14"x14" (35cm x 35cm) is outputted to B4 film, the resulting reduction factor is 50%. If the distance measured on the film is 1 mm, then actual size on the IP is 2 mm. Calculate the distance in actual size on the IP as shown below.

Film

The reduction factor is indicated here

Actual size on IP: 
$$\left[\text{Measured value x } \frac{100}{\text{Reduction factor (\%)}}\right] = 1 \text{ (mm) x } \frac{100}{50 \text{ (\%)}} = 2 \text{ (mm)}$$

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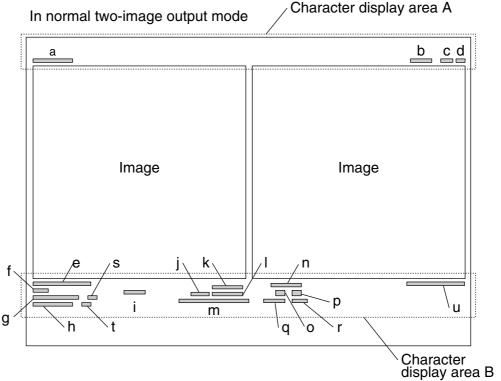
### **■** Check for Output Characters

Make sure that the output characters are indicated correctly on the output film.

#### **♦ CHECKS ♦**

- Make sure that the output characters are indicated correctly.

  If anything abnormal is found, refer to "4. [2] CONFIGURATION SETTING" in the "Maintenance Utility" volume.
- Ensure that there is nothing abnormal with the output characters. If anything abnormal is found, refer to the "Troubleshooting" volume.



- O Character display area A (above the image area)
  - a: Hospital name (institution name)
  - b: IP number
  - c: EDR mode and menu code
  - d: System ID and image number
- O Character display area B (below the image area)
  - e: Image processing conditions
  - f: Exposure menu name
  - g: Standardization conditions and amendments
  - h: Engineer code and exposure table information
  - i: Department name
  - j: Patient ID
  - k: Patient name (kana)
  - I: Patient name (kanji)
  - m: Exposure date and time
  - n: Film mark
  - o: Sex
  - p: Age or birth date
  - q: Image reduction ratio
  - r: Set processing information
  - s: Left-right reversal mark (A)
  - t: Data compression code
  - u: PEM information or Ene.-Sub./superposition information

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# 23. Checking and Deleting the Error Log during Setup

### 23.1 Checking the Error Log

- (1) Start the M-Utility.
- (2) Open the error log.

### **♦** REFERENCE **♦**

Below is shown an example where errors and warning messages are displayed. To check the number of occurrences for each error code, select "2. SUMMARY", instead of "1. ALL".

```
0. QUIT
                   1. ERROR LOG UTILITY
                   2. CONFIGURATION SETTING
                   3. TEST MODE
                   4. ELECTRICAL UTILITY
                   5. SCANNER UTILITY
                   6. MECHANICAL UTILITY
                   7. FILE UTILITY
                   8. BACKUP MEMORY
                   9. HV OFF
                   10. MENU SETTING
                   11.SYSTEM UTILITY
#1 [Input/ENT]
                      1
                   0. QUIT
                   1. LIST
                   2. CLEAR
                   3. SAVE TO FD
                   4. SAVE TO HD
#2 [Input/ENT]
                   ELU > 1
                   0. QUIT
                   1. ALL
                   2. SUMMARY
#3 [Input/ENT] ■
                   ELU : LI >
                   0. QUIT
                   1. ERROR
                   2. WARNING
                   3. BOTH
#4 [Input/ENT] I
                   ELU:LI:ALL > 3
                                                刁
                    CODE DATE
                    081D 1998.04.16 14:36
                         11.E738.000002.8A0AC1.000000.000
                         000001.000009.00001B
                    1722 1998.04.16 09:58
                         85AA1319.05972166
                    0.END 1.NEXT 2.BEFORE (DEFAULT=1):
```

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(3) Check the error log displayed, and make sure that no error logs are generated during this installation procedure.

### **♦** CHECK **♦**

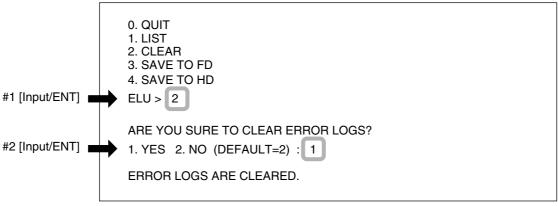
Check to ensure that no error logs are generated.

If error logs are generated, see [Troubleshooting Volume].

### 23.2 Deleting the Error Log

If no error logs are generated, the error logs, if any, prior to the installation, should be deleted.

- (1) [0] [ENT] [0] [ENT] [0] [ENT]
- (2) Delete the error log.



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- ♦ When all the error logs are deleted, a message "ERROR LOGS ARE CLEARED." appears.
- (3) [0] [ENT] [0] [ENT]
- (4) [Return]

# 24. Powering OFF

- (1) Turn OFF the system power switch.
- (2) Make sure that the system, as well as any external device connected to it, powers OFF normally.

# 25. Cleaning the Covers

Clean all the covers with a moistened cloth.

# 26. Attaching the Labels

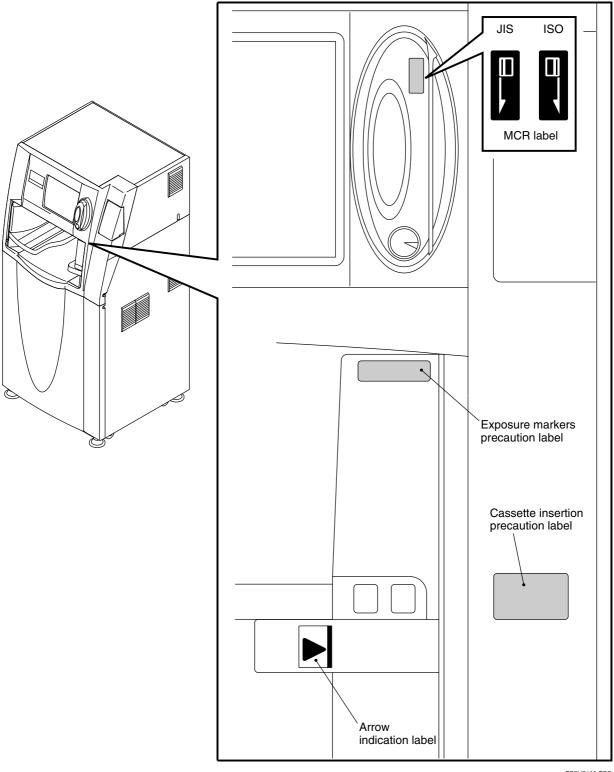
Referring to the dimensional values for attachment locations illustrated below, attach the labels, supplied as the separate packaged item, to the cover.

□ Exposure markers precaution label

☐ Cassette insertion precaution label 1

□ Arrow indication label

☐ MCR label (for CSL type only) 2 (JIS and ISO)



### 27. Final Placement

For final placement, there are two installation methods. One is to install the machine by securing it with the clamps that were removed at the time of unloading, and the other is to install the machine without using such clamps. Check the space available for installation, and consult with the user about his wishes before choosing between the above two installation methods.

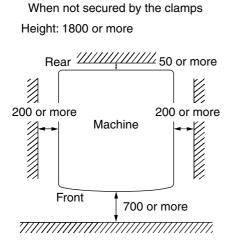


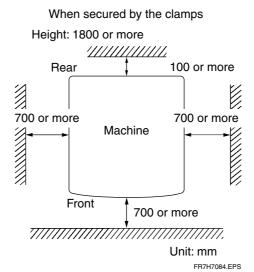
### **CAUTION**

In order to avoid electric shock hazards, power OFF the machine before performing any procedures.

### ■ Installation Space Required for Final Placement

The space required for final placement differs depending on whether the machine is to be secured with the clamps or not.



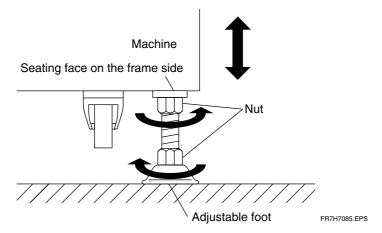


### 27.1 Securing the Machine with the Adjustable Feet

- (1) Bring the four adjustable feet down onto the floor.
- (2) Using a wrench, rotate the lower nut of the adjustable foot to adjust its height.

### ♦ NOTES ♦

- Lower the adjustable feet until the casters are lifted off the floor.
- Make sure that all the four adjustable feet are used.
- Rotate the four nuts evenly.
- (3) Push the upper nut of the adjustable foot against the machine and secure it in place.



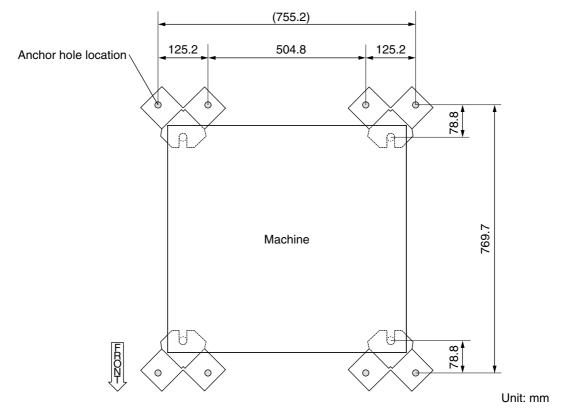
### 27.2 Securing the Machine with the Clamps

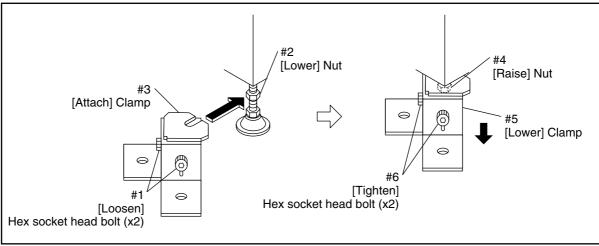
#### **♦** NOTE **♦**

Before drilling holes for embedding the anchor nuts, wear protective goggles.

### **◇ REFERENCES ◇**

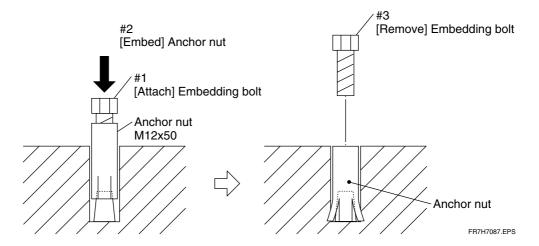
- If the rear clamps are not tightened by the adjustable foot nuts, the machine can be repositioned as needed for maintenance or like purposes simply by removing the two front clamps.
- If the rear of the machine cannot be provided with an adequate space for clamp installation, tighten the two front clamps only.
  - (1) Determine the locations for embedding the anchor nuts.
  - (2) Mark the floor surface to indicate the clamp hole locations.



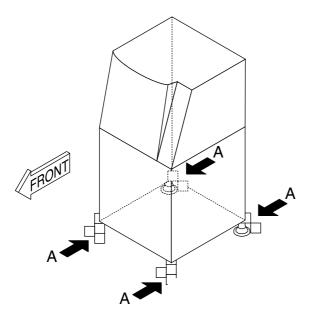


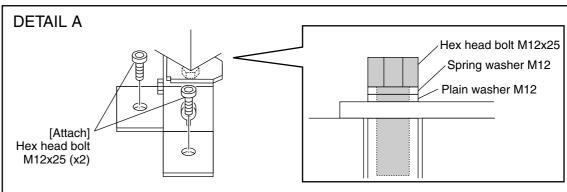
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- (3) Move the machine away for anchor nut embedding work.
- (4) Drill holes at the locations marked for embedding the anchor nuts, and embed the anchor nuts.



(5) Secure the machine in place.





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# Appendix 1. Connecting the Peripheral Devices (for Network Connection)

A system configuration, including an overall network configuration for connecting the machine and an optional configuration of the machine, is determined according to the user's request.

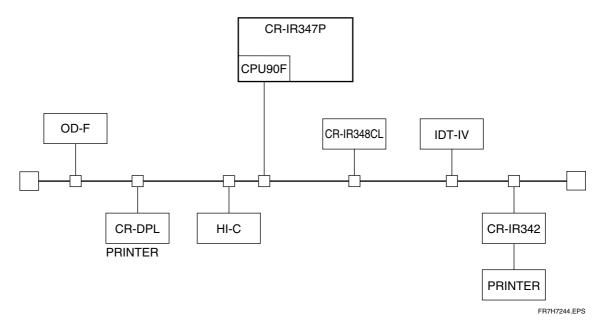
Appendix 1 summarizes information required to determine the system configuration for network connection.

### **Appendix 1.1 Checking the Connectable Peripheral Devices**

### **♦** REFERENCES **♦**

- The CR-IR347 may transfer image data via a network to another CR-IR347 connected to the printer, where it may be outputted.
- If the printer connection is set for both local connection and network connection in the Configuration Setting, either the local or network printer may be selected in the printer selection of the U-Utility.

A typical network-connected system is shown below:



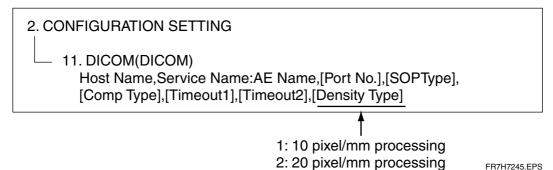
### ● IDT-IV configuration setup

Change the added mammography menus (right-hand breast (DSR)) and left-hand breast (DSR)) to the First Level.

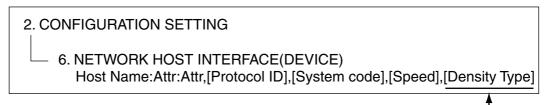
### ● Network connection configuration setup (20 pixel/mm-to-10 pixel/mm conversion)

#### ○ CR-IR347

• FINP110



JQA-DICOM / OEM-DICOM



1: 10 pixel/mm processing 2: 20 pixel/mm processing

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O HI-C655, HI-C655QA, HI-C654, OD-F614, OD-F624

Perform setup so as to permit the reception of high-resolution images.

- Software versions supporting the connection to the CR-IR347
- O Direct connection (20 pixel/mm process)
  - CR-DPL: B01
- FINP110 (20 pixel/mm process)
  - HI-C655: B00
- FINP110 (10 pixel/mm process)

• IDT-IV	: A10 / B10	• CR-IR348CL	: A02
• 5000	: A10	• 5000R	: A06
• 5501H	: A06	• 5501D	: A02
• 5502D	: A01	• 5000MA	: A02
• FN-PS551	: A04	• HI-C655	: A07
• HI-C655QA (re-output)	: A04	• HI-C654	: A13-03 β
• OD-F614	: A11 / Z02	• OD-F624	: A11 / Z02
• DRYPIX1000	· Δ011		

DRYPIX1000

### ♦ NOTE ♦

The HI-C654 does not support the mammography menus added to the CR-IR347.

### ○ JQA-DICOM (10 pixels/mm process)

HI-C655QA (storage): A04

### **Appendix 1.2 Basic Pattern of System Configuration**

The CR-IR347 comes in thee types: IDT type, CSL type, and CL connection type. This appendix explains about the basic system configuration patterns on the presumption that the IDT-IV or CR-IR348CL is network-connected.

### ■ Basic Pattern of System Configuration

The CR-IR347 system configuration is mainly classified into two categories: the IDT-IV is connected to the CPU90E board or to the CPU90F board.

#### Pattern where IDT-IV is connected to CPU90E

- System configuration pattern (1)
   The DMS is not connected.
- System configuration pattern (2)

The DMS is connected to the CPU90F via a network (10Base-T).

#### Pattern where the IDT-IV is connected to CPU90F

The IDT-IV is connected to the CPU90F board via a network (10Base-T or 100Base-TX).

- System configuration pattern (3)
  - The DMS is connected to the CPU90F board via a network (10Base-T).
- System configuration pattern (4)
  - The DMS is connected to the CPU90F board via a network (100Base-TX).
  - Because the IDT-IV can be connected exclusively to 10Base-T, it is connected through a 100M/10M bridge.
- System configuration pattern (5)
  - Both the IDT-IV and DMS are connected to the CPU90F board via a network. The use of a 100M/10M switching hub permits the IDT-IV and DMS to exchange data over 10Base-T and 100Base-TX, respectively.

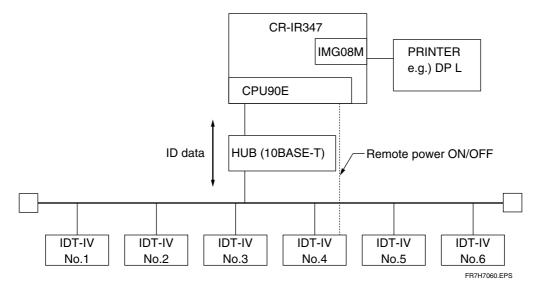
### Connecting CR-IR348CL to the CPU90F

System configuration pattern (6)
 CR-IR348CL is connected to the CPU90F board via a network (100BASE-TX).

### Appendix 1.2.1 Pattern Where IDT-IV Is Connected to CPU90E

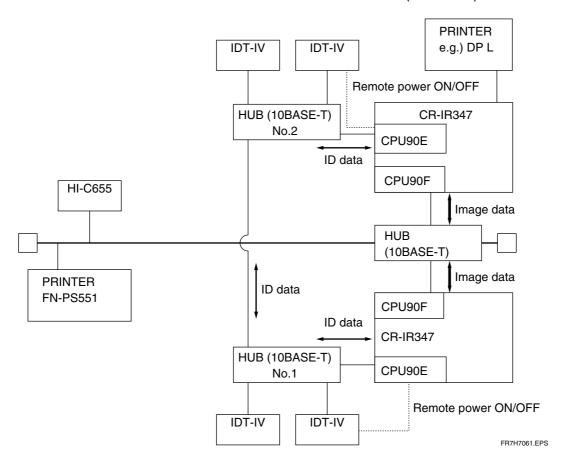
### ■ System Configuration Pattern (1)

The DMS is not connected.



### ■ System Configuration Pattern (2)

The DMS is connected to the CPU90F board via a network (10Base-T).

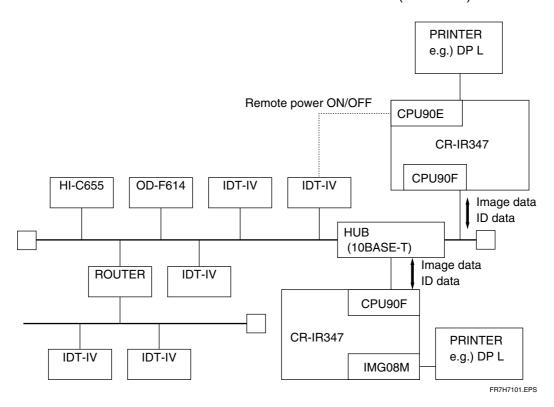


### Appendix 1.2.2 Pattern Where IDT-IV Is Connected to CPU90F

The IDT-IV is connected to the CPU90F board via a network (10Base-T or 100Base-TX).

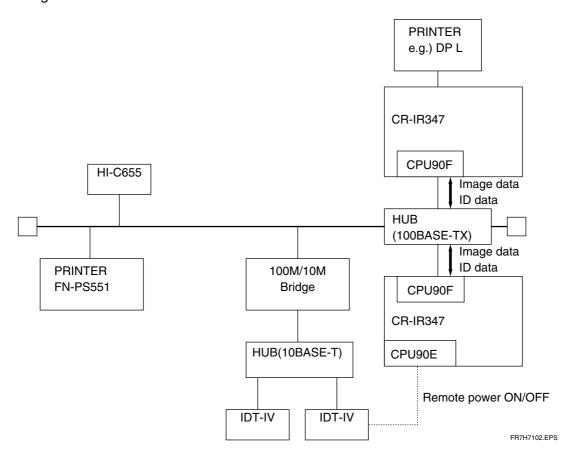
### ■ System Configuration Pattern (3)

The DMS is connected to the CPU90F board via a network (10Base-T).



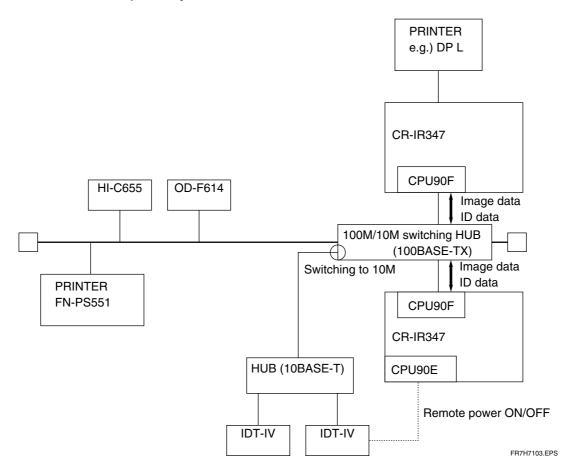
### ■ System Configuration Pattern (4)

The DMS is connected to the CPU90F board via a network (100Base-TX). Because the IDT-IV can be connected exclusively to 10Base-T, it is connected through a 100M/10M bridge.

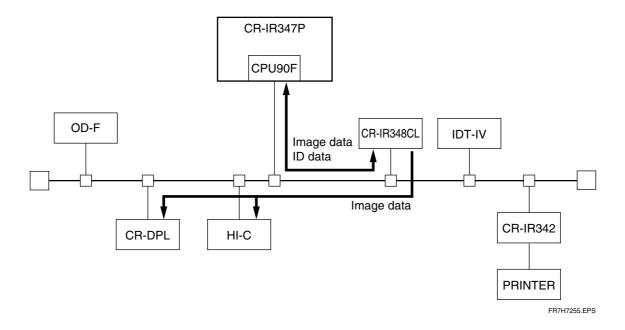


### ■ System Configuration Pattern (5)

Both the IDT-IV and DMS are connected to the CPU90F board via a network. The use of a 100M/10M switching hub permits the IDT-IV and DMS to exchange data over 10Base-T and 100Base-TX, respectively.



### ■ System Configuration Pattern (6)



### Appendix 1.3 IDT Type and CSL Type

There are two types of CR-IR347: IDT type that is connected to the IDT-IV for input of ID information and CSL (console) type that employs a card reader and barcode reader located on the machine for input of ID information.

#### ■ Difference in Hardware between IDT Type and CSL Type

The CSL type comes standard with the card reader and barcode reader as ID information input devices. With the IDT type, the card reader and barcode reader are provided on the IDT.

#### ■ Difference in Software between IDT Type and CSL Type

Common software is implemented in both the IDT type and CSL type. By setting the system type in the configuration file (IRSET.CFG), the CR-IR347 functions as either the IDT type or CSL type.

With the CSL type, it is necessary to make ID information-related and other setups for configuration setting.

#### ■ ID Information Search Logic and IDT Registration

In order to receive ID information from the IDT-IV, the IDT-IV should be registered in the CR-IR347. Up to five units of the IDT-IV can be registered, and ID inquiries are made in order of registration.

Upon insertion of an IP cassette, the CR-IR347 scans the barcode on the IP and makes an inquiry to the IDT-IV about whether the ID information corresponding to the barcode has been registered.

Upon receipt of the ID information inquiry, the IDT-IV first searches for the relevant ID information within the IDT-IV that has directly received the inquiry. If it is not found, the inquired IDT-IV makes an inquiry to all the IDT-IV's connected over the network.

If no ID information is found frequently in the IDT-IV inquired by the CR-IR347, the network and individual IDT-IV's may be overloaded. Thus, it is recommended to first register in the CR-IR347 an IDT-IV that is most likely to contain the ID information (typically, the IDT-IV's should be registered in order of their proximity to the CR-IR347).

If the IDT-IV's are grouped for operation, they may be configured so that an ID information search can be done for different groups by registering in the CR-IR347 one IDT-IV within each group. However, this configuration should not be implemented, as a rule, because grouping itself provides a means for managing the ID information separately.

## Appendix 1.4 List of Setup Items Related to Network and Setup Examples

Below is shown an example of setup for network-related configuration files. The configuration file information should be determined according to your system configuration with reference to the example shown below.

#### ■ List of Setup Items (1/2)

RMT_SW .OFG	Description	Format	Parameter	Remarks	Refer to
	Remote switch ON/OFF setting for intelligent hub	IP address, rout, "NOPK1000" IP address, rout, "NOPK0000"	"NOPK1000"=ON "NOPK0000"=OFF	Indent	I
EQUIPMENT	Setting of connected equipment and host name	Function host name [Host Name]	■ [Function] (function) OD_FILE: filing DISPLAY: H-C PRINT: printer IDT: ID terminal ■ [Host Name] (host name) LOCAL: Used when direct connection is established Host Name: Used when network connection is established	• Up to one host name may be designated for connected equipment OD_FILE and DISPLAY, respectively.  OD_FILE ≤ 1, Host Name ≤ 1  • Up to one "LOCAL" and one host name may be designated for PRINT.  LOCAL ≤ 1, Host Name ≤ 1  • For IDT, up to five host names may be designated following "IDT". Even if six or more IDTs are connected over the network, a maximum of five IDTs may only be designated.  Note that the CR-IR347 cannot search for ID information of the IP inserted unless the IDT is powered ON.  IDT ≤ 5 units.	I
NETWORK HOST INTERFACE	Definition of host name	Host Name:AttrlAttr,[Protocol ID],[System code],[Speed] , [DensityType]	■ Attr (attribute) OD_FILE: archive filing DISPLAY: display PRINT: printer HD_FILE: active filing ■ Protocol ID (protocol) 0001 DMS protocol 0100 FINP 0110 FINP 0200 DICOM (Base on DICOM)		1
HOSTS HOSTS	Setting of IP address and host name	IP Addr Host Name	■ IP Addr (IP address) xxx.xxx.xxx.xxx  ■ Host Name (host name) Example: for5000a	An IP address should be set using numerals ranging from 0 to 255. A host name should be set within 10 ehrarders, using lowercase alphabets (a-z), numerals (0-9), and hyphen (-). The initial letter of a host name should always be a lowercase alphabet.	ı

### ■ List of Setup Items (2/2)

Refer to	te should not acters. —		I	l I
Remarks	■ The distribution destination code should not be set using more than 8 characters. ■ Up to four entries of [Host Name] (host name) may be set.			
Parameter	■ [Code] (distribution destination code) A distribution destination code should be set using eight alphanumerical characters or "?"  Example: AA0123?? ■ [Host Name] (host name) The host name represents a host name that is set in the "HOSTS" file.		■ Dst Addr  The transfer destination IP address or transfer destination network IP address, and the router name or router IP address should be set.	■ Dst Addr  The transfer destination IP address or transfer destination network IP address, and the router name or router IP address should be set.  Example:  172.16.0,0 255.255.255.0
	Code Host Name[Host Name]	(Dst Addr I Dst Network Addr)	△ (Router Name I Router Addr)	△ (Bouter Name I Router Addr)   Ex  Network netmask Network Netw
	Setting of distribution destination for network connection	Information about the router address within the network and the IP address for network connection		Setting of subnet mask for network connection
	CODED STB	ROUTE		NET S MASKS 0
	DISTRIBUTION	ROUTING		NETMASKS

#### ■ Setup Example 1

- Two units of the IDT-IV are connected to the CPU90E board of the machine via a 10Base-T hub.
- The OD-F624, HI-C654, and FN-PS551 are connected to the CPU90F board of the machine via a 10Base-T hub.
- The machine and FL-IMD are connected via the E-i/f (IMG08M).

An example of description (bold faced) for the above setup is presented below.

#### ● SYSTEM (IRSET.CFG)

For "3. IPS" and "4. IPI", set appropriate IP addresses.

#### EQUIPMENT (EQUIP)

```
#
# EQUIP
# # Function Host Name [Host Name]...
# Function = OD_FILE or DISPLA Y or PRINT or IDT
OD_FILE odf624
DISPLAY hic654
PRINT LOCAL fn-ps551
IDT fcridt4-1 fcridt4-2
```

#### NETWORK HOST INTERFACE (DEVICE)

```
#
# DEVICE
# Host Name: Attr | Attr, [Protocol ID], [System code], [Speed],
    , [Density Type]
# Attr
              = PRINT or HD FILE or DISPLAY or OD FILE
# Protocol ID = 0100(FINP) or 0110(FINP) or
    0200 (DICOM)
# System code = Hex 2 figures
              = Dec [Kbytes/sec] (default 8Kbytes/sec)
# Speed
# DensityType= Output Image Density (Default 1)
      1: Standard Density or High Quality Density
         (Max Pixel Spacing:100)
      2: Standard Density or High Quality Density
         (Max Pixel Spacing:050)
hic654:DISPLAY | HD FILE,0100,,,
odf624:OD FILE,0100,,,
fn-ps551:PRINT,0100,,,
```

#### HOSTS ADDRESS (HOSTS)

```
# HOSTS
# Host Name = Max 10 characters
#(Available Character:'a'-'z' '0'-'9' '-'[37chars])
# IP Addr
             Host Name
172.16.0.1
             fcr5000a
172.16.0.2
             fcr5000a-1
172.16.0.21
             fcridt4-1
172.16.0.22
             fcridt4-2
172.16.0.101 hic654
172.16.0.102 odf624
172.16.0.103 fn-ps551
```

#### DISTRIBUTION (CODEDSTB)

#### NETMASKS (NETMASKS)

```
#
#
# #
| # Network masks database
| #
| # only non-default subnet masks need to be defined here
| #
| # Network netmask
| 172.16.0.0 255.255.0.0
```

#### ■ Setup Example 2: QA-WS Connection

For the QA-WS connection, perform the following setup procedures.

#### ♦ NOTES ♦

- The HCP08A board (optional) and CPU90F board (optional) must be installed in the control rack.
- The "Fuji Base on DICOM" software must be installed.

#### ● SYSTEM (IRSET.CFG)

- For "3. IPS" and "4. IPI", set appropriate IP addresses.
- For "45. UID\_STI", set an appropriate examination instance user ID.

#### EQUIPMENT (EQUIP)

Set the transfer destination QA-WS host name ("qa-ws1") as the DISPLAY attribute.

To deliver the re-output from the QA-WS to the printer instead of directly delivering the output from the image reader to the printer, set "LOCAL\_R" as the PRINT attribute.

```
| #
| DISPLAY qa-ws1
| PRINT LOCAL_R
```

#### NETWORK HOST INTERFACE (DEVICE)

Set the host information about the transfer destination QA-WS.

```
# qa-ws1:DISPLAY,0200,,,
```

#### HOST ADDRESS (HOSTS)

Set the IP address and host name of the local machine and transfer destination QA-WS.

#### NETMASKS (NETMASKS)

If the transfer destination QA-WS is not within the same network, set the subnet mask. If the transfer destination QA-WS is within the same network, there is no need to make this entry.

#### DICOM (Base on DICOM)

Perform "Base on DICOM" setup for both the local machine and transfer destination QA-WS. The format to be used is as follows.

HostName, ServiceName: AEName, [PortNo.], [SOPType], [CompType], [Timeout1], [Timeout2], [DensityType]

O HostName (host name)

Specify the host name that is defined by HOSTS and DEVICE.

O ServiceName

Set "STORAGE\_U" for the local machine and "STORAGE\_P" for the QA-WS.

O AEName (Application Entity)

Set the DICOM-standard Application Entity name (consisting of up to 16 ASCII characters).

O PortNo. (port number)

Set the TCP port number that the "Base on DICOM" application uses.

This entry is meaningless for the transmitting end. When it is omitted, it is regarded as "104".

O SOPType (SOP Class Type definition)

Of "1: FINP" and "2: OEM", choose "1".

O CompType (image data compression definition)

Of "0: no compression" and "1: JPEG compression", choose "1".

O Timeout1 (timeout time)

Set the timeout time (in seconds) for the TCP socket connect/recv command.

O Timeout2 (timeout time)

Set the timeout time (in seconds) for one-image transfer.

O Density Type (output density)

Set the output density for output designation.

1: Standard Density or High Quality Density (Max Pixel Spacing: 100)

2: Standard Density or High Quality Density (Max Pixel Spacing: 050)

Be sure to select "1".

An example of description (bold faced) for the above setup is presented below.

```
#
# DICOM
# HostName, ServiceName: AEName, [PortNo.], [SOPType],
    [CompType], [Timeout1], [Timeout2], [DensityType]
  HostName = Host name defined by "hosts" & "device"
  ServiceName = "STORAGE U" or "STORAGE P"
  AEName = Application Entity Name defined by DICOM
#
    (MAX 16 ascii characters)
  PortNo. = TCP Port Number connected to
   Dicom application(100:default),
  SOPType = SOP Class Type
#
#
   1:Fuji Private, 2:OEM Private
#
  CompType = Compression Type
   0:No(Implicit little endian),1:JPEG
#
  Timeout1 = connect/recv command Timeout [sec]
#
     (0:endless)
#
  Timeout2 = Every Image Trans. Timeout [sec]
     (0:endless)
#
#
  DensityType = Output Image Density
#
    0:Standard Density
    1:Standard Density or High Quality Density
#
#
      (Max Pixel Spacing:100)
#
    2:Standard Density or High Quality Density
      (Max Pixel Spacing:050)
#
#
       Which Density is to be chosen depends on
         ID Information.
#
# ex)
  fcr5000-n
                ,STORAGE U :DPR DICOM,,2,1,100,600,1
          ,STORAGE P :DPR DICOM, 21760, 2, 1, 100, 600, 1
   dest-1
lan-sprbd1,STORAGE U:DPR DICOM,,1,1,100,600,1
all-hic, STORAGE P:DPR HIC, 21760, 1, 1, 100, 600, 1
qaws-j,STORAGE P:DPR-HIC,21760,1,1,100,600,1
```

#### ■ Setup Example 3: Printer Output Setup for Each Network Connection

#### **♦** NOTE **♦**

The HCP08A board (optional) and CPU90F/LAN90B board (optional) must be installed in the control rack.

Perform network-specific printer output setup as indicated below.

#### System (IRSET.CFG)

For "3. IPS" and "4. IPI", set appropriate IP addresses.

#### EQUIPMENT (EQUIP)

Set the host name of the transfer destination 5000 Series image reader as the PRINT attribute. Note that only one 5000 Series image reader unit can be added.

```
| #
| PRINT LOCAL fcr5000b
```

#### NETWORK HOST INTERFACE (DEVICE)

Set the host information about the 5000 Series image reader at the transfer destination.

```
| # | fcr5000b:PRINT,0100,,,
```

#### HOSTS ADDRESS (HOSTS)

Set the IP address of the 5000 Series image reader at the transfer destination.

```
| #
| 172.16.0.11 fcr5000b
```

#### NETMASKS (NETMASKS)

If the transfer destination QA-WS is not within the same network, set the subnet mask. If the transfer destination QA-WS is within the same network, there is no need to make this entry.

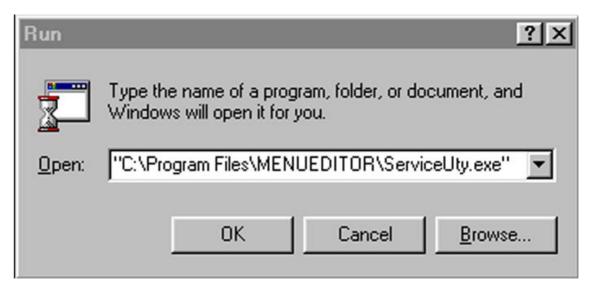
## **Appendix 3.** Menu Editor Setup

As regards the CSL type, Menu Editor (operative on Windows) can be used to edit image processing parameters and menu parameters (exposure menu parameters).

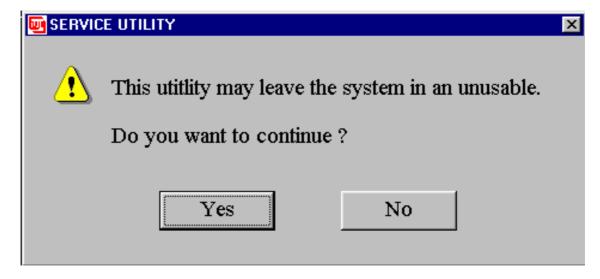
Before editing the CR-IR347 parameters with Menu Editor, complete Menu Editor setup by performing the procedures explained below.

#### **■** Startup procedure

- (1) Turn ON the PC on which Menu Editor is installed.
- (2) From the Windows [Start] menu, choose [Run...].⇒ The "Run" dialog box opens.
- (3) Type in "C:\Program Files\MENUEDITOR\ServiceUty.exe".

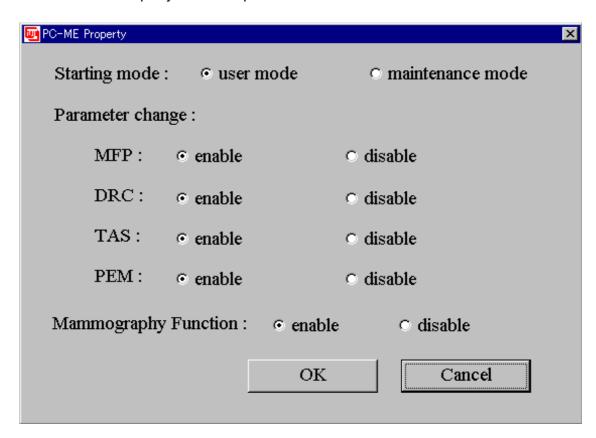


- (4) Click [OK].
  - A warning message dialog box opens.



(5) Click [Yes].

⇒ The "PC-ME Property" window opens.



#### **■** Setup procedure

#### ♦ NOTES ♦

- The parameter for the function unique to the CR-IR347 can be set up by software version A05 or later.
- Mammographic image processing is not authorized in the U.S. For use in the U.S., disable the mammography function of the CR-IR347.

#### **♦** REFERENCE **♦**

When the function unique to the CR-IR347 is enabled, you can edit the "Set Menu" and "Film Output Image Position" for mammography.

- (1) From the PC-ME Property window, set the following items:
  - MFP: Multi-frequency process
  - DRC: Dynamic range compression process
  - TAS: Linear tomographic artifact elimination process
  - PEM: Mammographic pattern enhancement process
  - Mammography Function: Function unique to CR-IR347
- (2) Click [OK].
  - The setup process ends.

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# Appendix 4. Procedures for Connecting with CR Console (CR-IR348CL)

When the CR-IR347 is to be connected to the CR Console (CR-IR348CL), reference should be made to the following manual bundled.

"CR-IR341P/342P/343P/344P/345P/347P/348RU Common Service Manual: Procedures for Connecting with CR Console (CR-IR348CL)"

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## CR-IR341P/342P/343P/344P/345P/347P/348RU

FCR5000 plus/5000R plus/5501 plus/5501D plus/5502D plus/5000MA plus/XU-D1

## **Common Service Manual**

# Procedures for Connecting with CR Console (CR-IR348CL)

#### - Contents -

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3.	Step 2 <preliminary installation=""></preliminary>				
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Control Sheet 1

Control Sheet

Control Check						
Issue date	Revision number	Reason	Pages affected			
04/15/2001	00	New release (FM3022)	All pages			
08/30/2001	01	Support for "plus" (FM3145)	All pages			

O The following terms used herein are abbreviated as follows.

CR-IR348CL: CL CR-IR341P/342P/343P/344P/345P/347P/348RU: IR

Local printer: LP

O The software versions of the IR that is connectable to the CL are as follows.

CR-IR341P (FCR5000 plus):

CR-IR342P (FCR5000R plus):

CR-IR343P (FCR5501 plus):

CR-IR344P (FCR5501D plus):

CR-IR345P (FCR5502D plus):

CR-IR347P (FCR5000MA plus):

CR-IR348RU (FCR XU-D1):

A14 or later

A09 or later

A04 or later

A04 or later

A07 or later

A08 or later

### Overall Work Flow

The procedures for installing the CL, IR and/or LP for the first time are described herein. The installation procedures are divided into three steps: setups of the CL main unit, preliminary installation, and final installation.

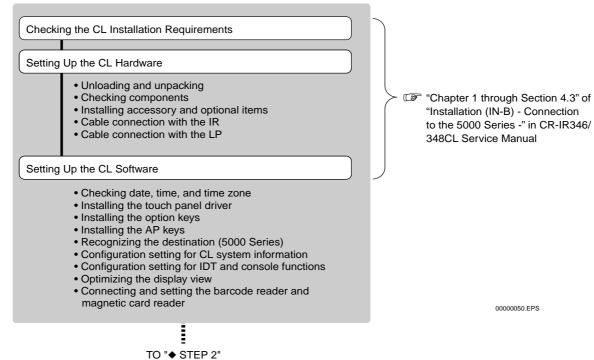
In Step 1, software setup for activating the CL in standalone fashion and configuration setup for enabling the CL to recognize the IR are performed.

In Step 2, configuration setup is performed to transfer images from the IR to the CL over a network.

In Step 3, the CL and IR are incorporated into the hospital network. Network information of the CL and IR are customized to the hospital network, and the resulting modifications are reflected in the configurations of the CL and IR.

The overall work flow is illustrated below.

#### ◆ Step 1 <Setups of CL Main Unit>



◆ Step 2 < Preliminary Installation> Setting the CL Configuration Regarding IR Connection (Setting in CL's Service Utility) Section 3.1 • Setting for the source (CL) (DICOM setting) • Setting for the destination (IR) (DICOM setting) • Setting for ID information exchange (FINP setting), etc. Section 3.2 Setting the Selector [Only When the Built-In Device Is Connected] Section 3.3 Setting the CL Configuration Regarding LP Connection (Setting in CL's Service Utility) Installing the Console Display Software (Installing in CL's PC) Section 3.4 Section 3.5 Setting the IR Configuration Regarding CL Connection (Setting in M-Utility) • EQUIPMENT (EQUIP) NETWORK HOST INTERFACE (DEVICE) • HOSTS ADDRESS (HOSTS) • DICOM (Based on DICOM) Section 3.6 Checking Image Transfer Performing Preliminary Installation for Connection of Two or More IRs Section 3.7 ◆ Step 3 <Final Installation> Section 4.1 Incorporating the CL and IR into the Hospital Network Section 4.2 Changing the IR and CL Configuration Settings [Modifying Only Configurations Related to Network Information Changed] • Subnet Mask, CL/IR host name, CL/IR IP address IR configurations • CL/IR Application Entity name, CL Port No. CL host name • Subnet mask, CL IP address • IR host name, IR IP address CL configurations CL Application Entity name, CL Port No. • IR Application Entity name Section 4.3 Re-Setting the Selector [Only When the Host Name of the Built-In device Is Changed] Section 4.4 Checking Image Transfer

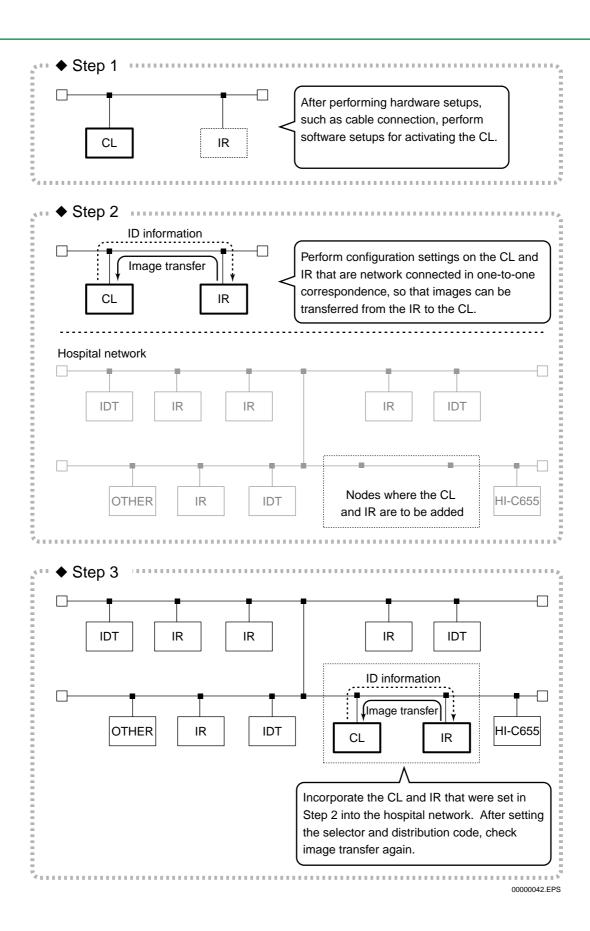
From "◆ Step 1"

Backing Up the CL Configuration Files to Floppy Disks

Connecting HI-C, QA-WS, ODF, RIS, and Other Devices to the CL

Section 4.5

Section 4.6



## 2. Step 1 <Setups of CL Main Unit>

Set up the CL main unit with reference to the CR-IR346/348CL Service Manual.

"Installation (IN-B) - Connection to the 5000 Series -" in the CR-IR346/348 CL Service Manual

#### **■** Contents of CL Main Unit Setups

#### Hardware-related setups

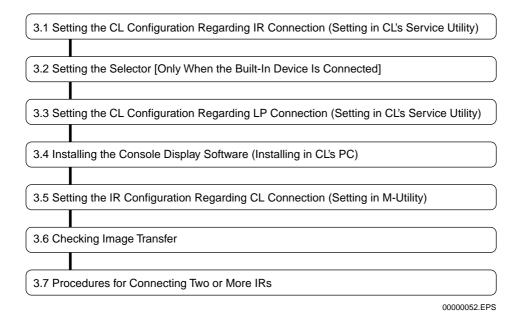
- Unloading and unpacking
- Checking components
- Installing accessory and optional items
- Cable connection with the IR
- Cable connection with the LP

#### Software-related setups

- Checking date, time, and time zone
- Installing the touch panel driver
- Installing the option keys
  - <Note> Then, install the energy subtraction processing option key for the FCR XU-DI.
- Installing the AP keys
- Recognizing the destination (5000 Series)
- Configuration setting for CL system information
- Configuration setting for IDT and console functions
- Optimizing the display view
- Connecting and setting the barcode reader and magnetic card

## 3. Step 2 < Preliminary Installation>

Procedures for network connecting the CL and IR in one-to-one correspondence and transferring images from the IR to CL are described in this section. The work flow is presented below.

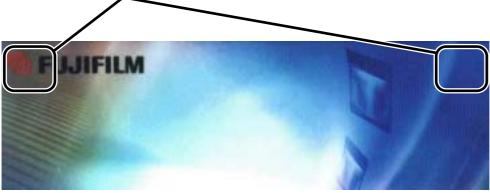


## 3.1 Setting the CL Configuration Regarding IR Connection (Setting in CL's Service Utility)

#### ■ Activating the CL Service Utility

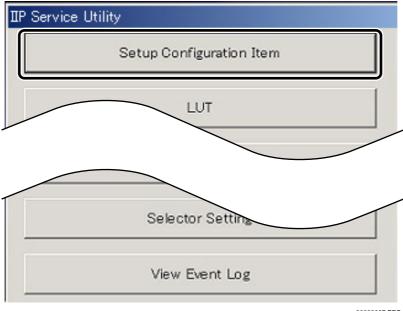
- (1) Click first on the upper left corner and then on the upper right corner (within 5 seconds) of the startup screen of the CL to activate the CL Service Utility.
  - "1. Procedures for Starting and Quitting the Service Utility" of "Maintenance Utility (MU)" in the CR-IR346/348CL Service Manual

Click first on the upper left corner and then on the upper right corner.



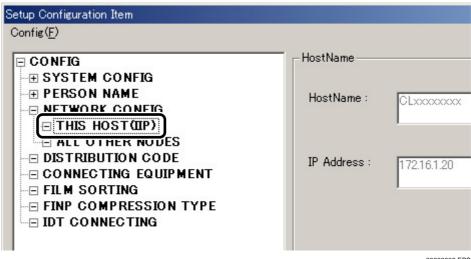
#### ■ Setting for the Source (CL)

(1) Click "Setup Configuration Item".



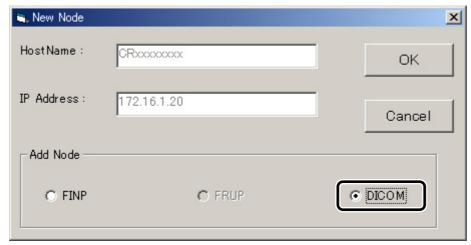
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- ⇒ The "Configuration Item" dialog box appears.
- (2) Click NETWORK CONFIG THIS HOST(IIP)

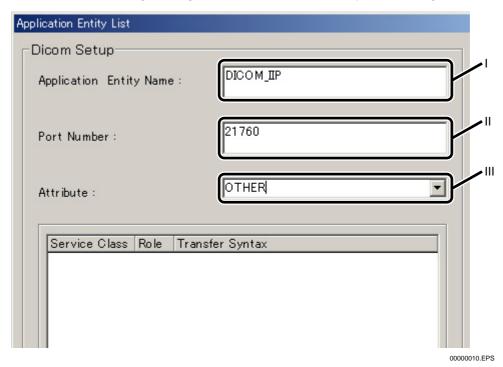


- New (3) Click
  - ⇒ The "New Node" dialog box appears.

(4) Select OICOM in the "Add Node" portion and click

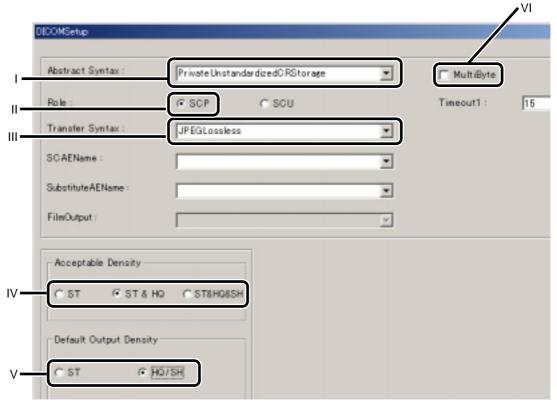


- ⇒ The "Application Entity List" dialog box appears.
- (5) Perform the following settings in the "Application Entity List" dialog box.



- I. Type in the Application Entity Name (DICOM\_IIP) of the CL.
- II. Type in the Port No. (21760) of the CL.
- III. Select "OTHER".
- (6) Click New
  - ⇒ The "DICOM Setup" dialog box appears.

(7) Perform the following settings in the "DICOM Setup" dialog box.



- I. Select "PrivateUnstandardizedCRStorage".
- II. Select "SCP".
- III. "Select "JPEG Lossless".
- IV. Select "ST&HQ". When the 5000MA is connected, select "ST&HQ&SH".
- V. Select "HQ/SH".
- VI. If two-byte characters are to be used, check this checkbox.
- (8) Click OK
  - Back to the "Application Entity List" dialog box.
- (9) Click OK
  - Back to the "Setup Configuration Item" dialog box.

#### ■ Setting for the Destination (IR)

- (1) Click " NETWORK CONFIG ALL OTHER NODES in the "Setup Configuration Item" dialog box.
- (2) Click New .
  - ⇒ The "New Node" dialog box appears.
- (3) Type in the host name of the IR (fcr5501-n \*NOTE) in Host Name: and the IP address of the IR (172.16.0.2) in IP Address:



#### **♦** NOTE (\* NOTE) **♦**

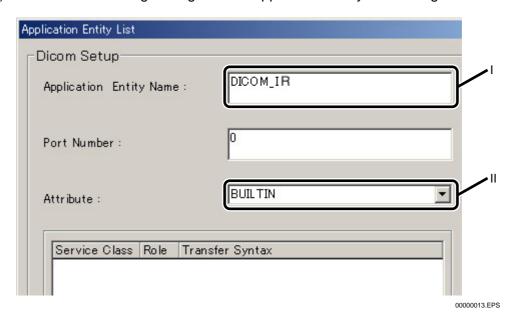
The default host names for the respective machines are as follows.

5000/5000R/5000MA: fcr5000-n 5501/5501D/5502D/XU-D1: fcr5501-n

(4) Select © DICOM in the "Add Node" portion and click OK

⇒ The "Application Entity List" dialog box appears.

(5) Perform the following settings in the "Application Entity List" dialog box.

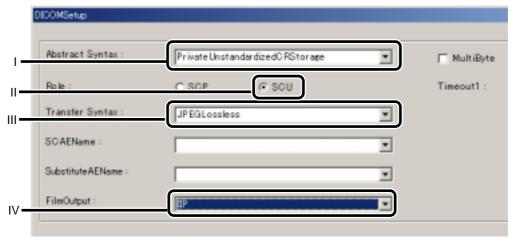


- I. Type in the Application Entity Name of the IR (for example, DICOM\_IR). "DICOM\_IR" is set, by default, for every IR.
- II. Select either "BUILTIN" or "CASSETTE".



⇒ The "DICOM Setup" dialog box appears.

(7) Perform the following settings in the "DICOM Setup" dialog box.



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- I. Select "PrivateUnstandardizedCRStorage".
- II. Select "SCU".
- III. "Select "JPEG Lossless".
- IV. Select the film output destination.
  Select "IIP" when the LP is connected to the CL, or "FCR5000" when the LP is connected to the IR.

#### **♦** NOTE **♦**

If the XU-D1 is connected, "FCR5000" should not be selected in the "Film Output" field. The XU-D1 does not support LP output.

- (8) Click OK .
  - ⇒ Back to the "Application Entity List" dialog box.
- (9) Click OK
  - ⇒ Back to the "Setup Configuration Item" dialog box.

#### ■ Setting for ID Information Exchange

#### **♦ NOTE ♦**

This setting may be omitted for a cassette-based reader. If it is omitted, communication between the reader and CL operates as "FINP110".

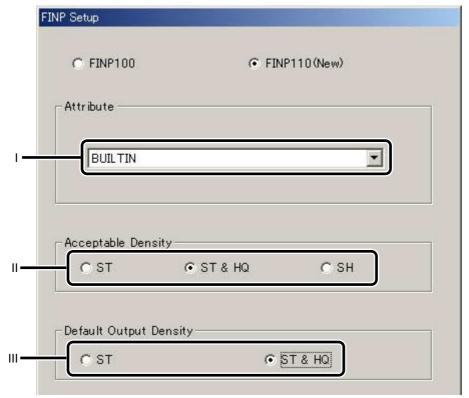
- (1) Click NETWORK CONFIG ALL OTHER NODES fcr5501-n (host name of the destination) in the "Setup Configuration Item" dialog box.
- (2) Click New
  - ⇒ The "New Node" dialog box appears.
- (3) Make sure that FINP is selected in the "Add Node" portion, and click OK



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⇒ The "FINP Setup" dialog box appears.

(4) Perform the following settings in the "FINP Setup" dialog box.



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I. Select either "BUILTIN" or "CASSETTE".

5000/5000R/5000MA : CASSETTE 5501H/5501D/5502D/XU-D1 :BUILTIN

- II. Select "ST&HQ". When the 5000MA is connected, select "SH".
- III. Select "ST&HQ".
- (5) Click OK

⇒ Back to the "Setup Configuration Item" dialog box.

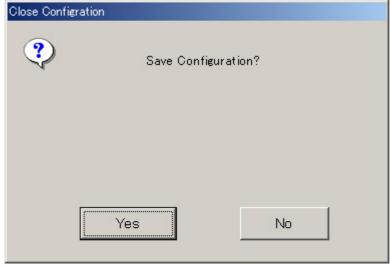
#### ■ Saving the Configuration and Quitting the Service Utility

(1) Choose "Save" from the "Config (F)" menu in the "Setup Configuration Item" dialog box.



A confirmation dialog box appears.





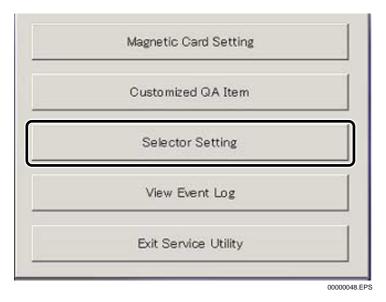
- The settings that that have been made are saved.
- (3) Choose "Close" from the "Config (F)" menu.
  - ⇒ Back to the "Service Utility" screen.

## 3.2 Setting the Selector [Only When the Built-In Device Is Connected]

When a built-in device is to be connected to the CL, it should be registered with the selector. When the cassette device is to be connected, it has been registered by default, so that its registration process need not be performed.

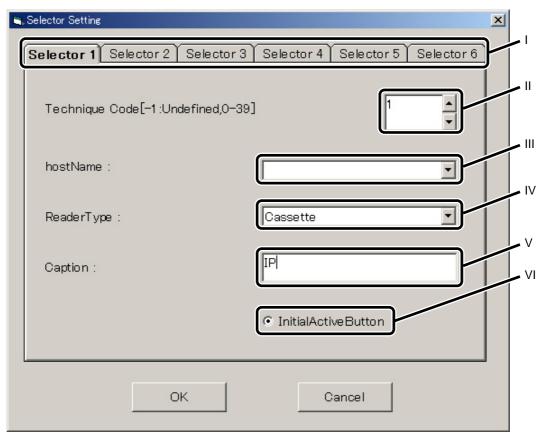
#### **♦ NOTES ♦**

- Up to 16 cassette devices and up to two built-in devices may be connected to the CL.
- If no device is set in the selector, the CL application will not start up. Be sure to set at least one device in the selector.
  - (1) Click the "Selector Setting" button in the "Service Utility" screen.



⇒ "The "Selector Setting" dialog box appears.

#### (2) Perform selector settings.



00000037.EPS

- I. Choose an unregistered "Selector" tab.In the "Selector 1" tab, the cassette device has been registered by default.
- II. Set the Technique Code that does not overlap with any other selector.
- III. Select the device to be added to the selector (by way of host name).
- IV. Select Reader Type.

5501H/5501D/XU-D1 : 55015502D : 5502

- To revert back to "Cassette", choose a vacant item from the pull-down menu of the "hostname:" field.
- V. Type in letters to be displayed in the selector button (up to five half-width letters).
- VI. To make the currently edited selector initially active when the CL is started, turn ON the radio button.

- (3) If no cassette device is connected, the selector setting for the cassette device that has been set by default should be deleted.
  - 1. Select the "Selector 1" tab.
  - 2. Change Technique Code to "-1".



- Back to the "Service Utility" screen.
- (5) Click the "Exit Service Utility" button.
  - The Service Utility exits to the desktop.

#### **♦** REFERENCE **♦**

Below is shown an example of user screen where one cassette device and one built-in device are set in the selector.



## 3.3 Setting the CL Configuration Regarding LP Connection (Setting in CL's Service Utility)

Configuration settings for connecting the LP to the CL are performed.

"2. Software Setup" of "Connection with Other Devices: CL + Local Printer (E-i/f Connection)" in the CR-IR346/348CL Service Manual

## 3.4 Installing the Console Display Software (Installing in CL's PC)

#### **♦** NOTE **♦**

When installing the console display software, be sure to use the floppy disks bundled with the IR. Never use the setup program contained in the CL's application CD-ROM.

(1) If the console display software has already been installed on the CL, uninstall it.

## **♦** REFERENCE **♦**

The console display software is an application program, called "Built\_in Console" found in "Add/Remove Programs" in the "Control Panel".

- "Appendix A Uninstalling Various Applications" of "Reinstalling Software (RI)" in the CR-IR346/348CL Service Manual
- (2) Put the first console display software floppy disk (FD) into the FD drive of the CL.
- (3) Double-click "Setup.exe" in the FD (A:\).
- (4) When a message prompting you to replace the FD, put the next FD into the drive. Repeat this process for the number of FDs.
  - Once all the data in the FDs is loaded, the "Built\_in Console Setup" window appears.
- (5) Click OK .



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(6) Click



00000024.EPS

Installation starts.

After the installation, the following dialog box appears.

(7) Click OK .



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- A window prompting you to restart the PC appears.
- (8) Remove the FD from the FD drive.
- (9) Click Yes



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⇒ The PC is restarted.

# 3.5 Setting the IR Configuration Regarding CL Connection (Setting in M-Utility)

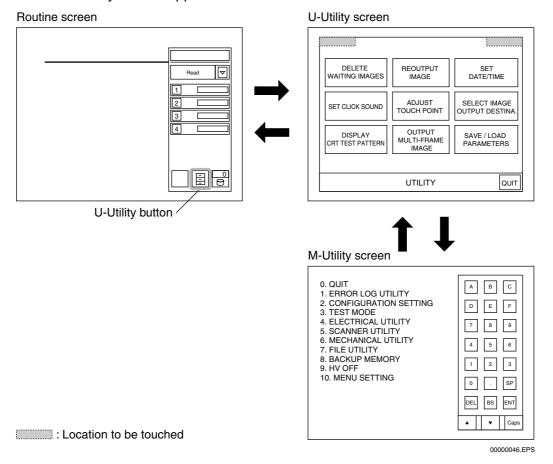
Start the M-Utility and set the configuration files.

For more detail on the M-Utility operating procedures, see "Maintenance Utility (MU)" in the Service Manual for each IR.

## **■** Starting the M-Utility

## ● For 5000/5000R/5000MA

- (1) Turn ON the breaker of the IR.
  - When the IR is booted up, the routine screen appears on the IR panel.
- (2) Press the U-Utility button on the IR panel.
  - The screen switches to the U-Utility mode.
- (3) Touch the upper left corner of the touch panel and then on the upper right corner within 2 seconds.
  - The M-Utility screen appears.



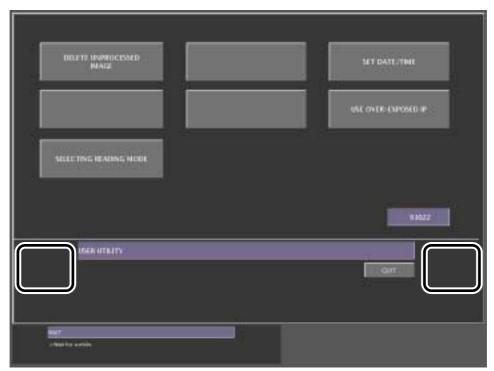
## • For 5501H/5501D/5502D/XU-D1

- (1) Turn ON the powers in the following sequence.
  - Breaker of the power distribution switchboard
  - Breaker of the IR
  - ⇒ When the IR is booted up, a message, "FUJI COMPUTED RADIOGRAPHY", appears on the IR panel.
- (2) Once the CL recognizes the IR, click



⇒ The "User Utility" screen appears.

(3) Click once on each of the areas shown below.



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⇒ The M-Utility screen appears.

## ■ Setting the Configuration Files

(1) Select the "2. CONFIGURATION SETTING" menu.

The CONFIGURATION SETTING menu appears.

\_\_\_\_\_\_

>2

- 0.QUIT
- 1.SYSTEM
- 2.PRINT
  - •
  - •
  - •
- 9.ROUTING
- 10.NETMASKS
- 11.DICOM

(2) Set the following four configuration files (change the bold-faced portions).

## **♦** NOTE **♦**

Unless otherwise specified, the configuration files described below should be regarded as those for XU-D1. The contents of the configuration files vary depending on the machine. For more detail, see the Service Manual for each IR.

#### O EQUIP file (Select "4. EQUIPMENT".)

#### **♦** NOTE **♦**

The host name of the CL may be identified by taking the following steps.

- 1. Click " "Settings" "Control Panel in sequence.
- 2. Double-click "System" and click the "Network Identification" tab.
- 3. Click "Properties".
  - The content of "Computer name" is the host name of the CL.

<sup>\*</sup> CRxxxxxxxx is the host name of the CL (xxxxxxxx: CL product serial number)

```
O DEVICE file (Select "6. NETWORK HOST INTERFACE.)

    For 5000/5000R/5501/5501D/5502D/XU-D1

# DEVICE
# Host Name: Attr | Attr, [Protocol ID], [System code], [Speed]
                 = DISPLAY
    Attr
    Protocol ID = 0200(DICOM)
    System code = Hex 2 figures
                 = Dec [Kbytes/sec] (default 8Kbytes/sec)
CRxxxxxxx: DISPLAY, 0200,,
           * CRxxxxxxxx is the host name of the CL (xxxxxxxx: CL product serial number)

    For 5000MA

# DEVICE
# Host Name: Attr | Attr, [Protocol ID], [System code], [Speed],
                            [Density Type]
#
#
                 = DISPLAY
    Attr
#
  Protocol ID = 0200(DICOM)
    System code = Hex 2 figures
#
           = Dec [Kbytes/sec] (default 8Kbytes/sec)
    DensityType = Output Image Density(Default1)
#
    1:Standard Density or High Quality Density(Max Pixel
#
          Spacing:100)
    2:Standard Density or High Quality Density(Max Pixel
          Spacing:050)
CRxxxxxxx: DISPLAY, 0200, , , 2*NOTE
           * CRxxxxxxx is the host name of the CL (xxxxxxxx: CL product serial number)
(*NOTE) Output density
1:Standard Density or High Quality Density (supported for up to 10 pixel/mm)
2:Standard Density or High Quality Density (supported for up to 10 pixel/mm)
O HOSTS file (Select "7. HOSTS ADDRESS".)
# HOSTS
# Host Name = Max 10 characters
#(Available Character:'a'-'z' '0'-'9' '-'[37chars])
# IP Addr
                Host Name
172.16.0.1
               fcr55es
172.16.0.2
               fcr55es-n
172.16.1.20
               CRxxxxxxx
```

<sup>\*</sup> CRxxxxxxxx is the host name of the CL (xxxxxxxxx: CL product serial number)

## O Base on DICOM file (Select "11. DICOM".)

```
# DICOM
# HostName, ServiceName: AEName, [PortNo.], [SOPType],
    [CompType], [Timeout1], [Timeout2], [DensityType]
  HostName = Host name defined by "hosts" & "device"
  ServiceName = "STORAGE U" or
                                "STORAGE P"
  AEName = Application Entity Name defined by DICOM
    (Max 16 ascii characterÇts)
  PortNo. = TCP Port Number connected to
   Dicom application(100:default).
  SOPType = SOP Class Type
   1:Fuji Private, 2:OEM Private
  CompType = Compression Type
    0:No(Implicit little endian),1:JPEG
  Timeout1 = connect/recv command Timeout [sec] (0:endless)
  Timeout2 = Every Image Trans. Timeout [sec] (0:endless)
  DensityType = Output Image Density
    0:Standard Density
    1:Standard Density or High Quality Density
       Which Density is to be chosen depends on ID Information.
\# ex)
  fcr5501-n
               ,STORAGE_U :DPR_DICOM,,2,1,100,600,1
  dest-1 ,STORAGE_P :DPR_DICOM,21760,2,1,100,600,1
fcr55es-n,STORAGE_U:DICOM_IR,,1,1,100,600,1
CRXXXXXXX,STORAGE P:DICOM IIP,21760,1,1,100,600,1
```

\* CRxxxxxxxx is the host name of the CL (xxxxxxxx: CL product serial number)

## **♦** REFERENCE **♦**

```
When the 5000MA is connected, set as follows.
```

fcr5000-n,STORAGE\_U:DICOM\_IR,,1,1,100,600,1 
CRXXXXXXX,STORAGE\_P:DICOM\_IIP,21760,1,1,100,600, $2^{*NOTE}$  (\*NOTE) Output density

- 0: Standard Density
- 1: Standard Density or High Quality Density (supported for up to 10 pixel/mm)
- 2: Standard Density or High Quality Density (supported for up to 20 pixel/mm)
- (3) Press the RESET switch of the IR.
  - The IR is rebooted.

## 3.6 Checking Image Transfer

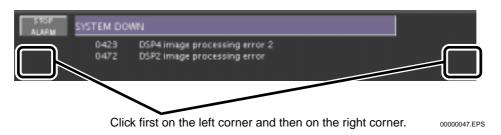
Transfer an image read by the IR to the CL, where it is outputted to the LP.

## ■ Starting the IR and CL-AP

- (1) Turn ON the breaker of the IR.
  - After a while, an IR initialization message appears on the monitor of the CL, and the IR gets ready for operation in a few minutes.

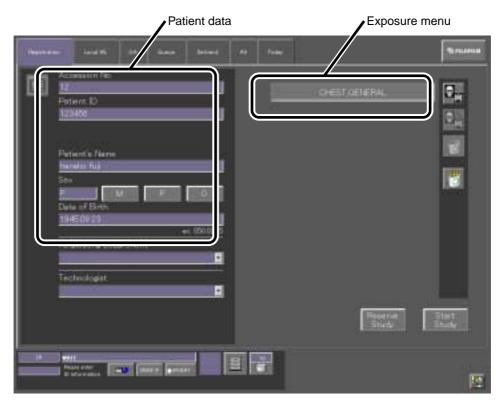
## ◆ NOTE ◆ [when the built-in device is used]

If an error occurs during IR startup so that the routine screen does not appear, the M-Utility screen may be displayed by taking the following step. Then, check the settings that have been made in "3.5 Setting the IR Configuration".



(2) Type in the patient data and exposure menu in the user screen (examination receipt)





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## ■ Reading the IP and Film Output to the LP

## • For 5000/5000R/5000MA

(1) Use the barcode reader to register the IP barcode and set the cassette into the IR.⇒ The image read is transferred to the CL.

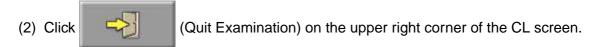


- (2) Click (Quit Examination) on the upper right corner of the CL screen.
  - After a while, film output is generated on the LP.

## ● For 5501H/5501D/5502D/XU-D1

(1) Send a shot signal to read an image of the IP.





After a while, film output is generated on the LP.

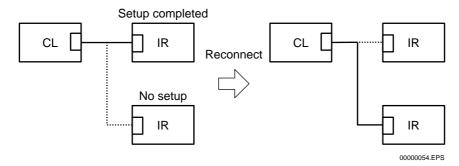
## ■ Quitting the CL-AP

- (1) Click FUJIFILM on the upper right corner of the screen.
  - The menus appear.
- (2) While holding down the <SHIFT> key, click Shut Down
  - The CL-AP exits to the desktop.

## 3.7 Procedures for Connecting Two or More IRs

Procedures for connecting two or more IRs to a single CL are described below.

(1) Reconnect the network cable to another IR.



- (2) Set the CL configuration. The settings to be made are as follows.
  - IR host name, IP address
  - Application Entity name, service class, etc.
  - Information on FINP for exchange of ID information
  - "■ Setting for the Destination (IR)" and "■ Setting for ID Information Exchange" in "3.1 Setting the CL Configuration Regarding IR Connection (Setting in CL's Service Utility)
- (3) For the built-in device, perform selector setting.
  - "3.2 Setting the Selector [Only When the Built-In Device Is Connected]"
- (4) Set the IR configuration. The settings to be made are as follows.
  - EQUIP file setting
  - DEVICE file setting
  - HOSTS file setting
  - · Base on DICOM file setting
  - (Setting the IR Configuration Regarding CL Connection (Setting in M-Utility)
- (5) Check image transfer.
  - "3.6 Checking Image Transfer"
- (6) If there is a third IR, repeat steps (1) through (5).

That's all there is to Step 2.

Perform image parameter transfer setting described in "3.8 Image Processing Parameter Transfer Setting", as needed.

## 3.8 Image Processing Parameter Transfer Setting

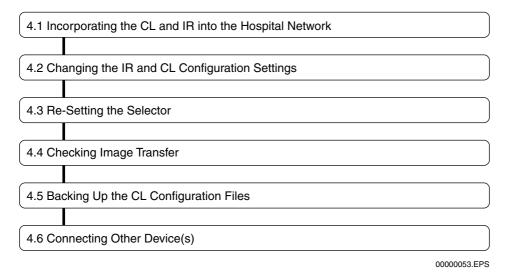
Perform network setting for transferring the image processing parameters from the CL to the IR. This setting should be made as needed.

If the software version for the CL is A02, image processing parameters are communicated via the CPU90E board. A network cable should also be connected to the CPU90E board.

"5. Image Processing Parameter Transfer Setting" of "Installation (IN-B) - Connection with 5000 Series -" in the CR-IR346/348CL Service Manual

## 4. Step 3 <Final Installation>

Incorporate the CL and IR that have been set up in Step 2 into the hospital network. The work flow is presented below.



#### ♦ NOTE ◆

- If multiple CLs are to be connected to a single 5000 cassette-based reader, the procedures described in the following reference should be performed together with the procedures described in the above work flow.
- "Appendix 1. Setup for Connecting Multiple CLs to a Single 5000 Cassette-based Reader"
- If the 5000plus system is to be added in the hospital network where the IDT-IV and CL already exist, the procedures set forth in the following reference should be performed, in addition to the work flow described above.
- "Appendix 2. Setting for Adding the 5000plus System in the Network where the IDT-IV Exists"

## 4.1 Incorporating the CL and IR into the Hospital Network

Reconnect the network cable that connects the CL and IR in one-to-one correspondence to meet the hospital network specifications.

If there are multiple IRs, they should be incorporated into the network at this time.

## 4.2 Changing the IR and CL Configuration Settings

If the following network information has been changed as a result of the participation in the hospital network, change the configuration settings of the CL and IR as appropriate.

- IR host name, IP address, Application Entity name
- CL host name, IP address, Application Entity name, Port No.
- Subnet mask of the overall network

## **♦** NOTE **♦**

The procedures described in this section should be performed for items that need to be changed. For the network information that need not be changed, the values that have been set in Step 2 should be used as they are.

For example, when the CL and IR are incorporated into the hospital network as illustrated below, the network information to be changed are:

- Subnet mask:
- CL IP address: and
- IR host name and IP address.

In this scenario, the configurations should be changed with reference to the following, which are described in detail later.

- Subnet Mask, CL/IR Host Name, CL/IR IP Address [Changing the M-Utility]
- IR Host Name, IR IP Address [Changing the Service Utility]
- Subnet Mask, CL IP Address [Changing Network Settings in Windows 2000]
- ◆ Example of Participation into the Hospital Network

Hospital network (subnet mask: 255.255.255.0) IDT IR **IR IR IDT** IP address: 100.150.100.1 100.150.100.2 100 150 100 3 100 150 100 4 100 150 100 5 Host name: IDT-1 CR5501D CR5502D CR5501 IDT-2 **IR** CL IR OTHER **IDT** HI-C655 172.16.1.20 172.16.0.2 100.150.100.6 100.150.100.7 100.150.100.8 100.150.100.9 fcr5501-n **CRxxxxxxx** IDT-3 CR5502D-2 IDT-4 HIC-1 100.150.100.10 100.150.100.11 **CRxxxxxxx** CRXUD1

The underlined portions have been changed.

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## ■ Subnet Mask, CL/IR Host Name, CL/IR IP Address [Changing the M-Utility]

- (1) Start the M-Utility and modify the configuration files in "2. CONFIGURATION SETTING".
  - "■ Starting the M-Utility" in "3.5 Setting the IR Configuration Regarding CL Connection (Setting in M-Utility)"

Modify the configuration(s) marked by a circle, depending on the network information changed.

Network information changed IR config	IR host name	IR IP address	CL host name	CL IP address	Subnet mask
SYSTEM		0			
EQUIPMENT			0		
NETWORK HOST INTERFACE			0		
HOSTS ADDRESS	0	0	0	0	
NETMASKS					0
DICOM	0		0		

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## ♦ NOTES ♦

- The SYSTEM configuration should be set in the "2. SYSTEM" menu of "2. CON-FIGURATION SETTING" in the M-Utility.
- For the IP address setting in "2. SYSTEM" of "2. CONFIGURATION SETTING" in the M-Utility, the IP address on the CPU90F board side (IPI: IP Address (CPU90F)) should be changed.
- The NETMASK configuration should be set in the "7. NETMASK" menu of "2. CON-FIGURATION SETTING" in the M-Utility.
- (2) If there are multiple IRs, change the IR configuration for the second and third IRs in a similar manner to step (1).

#### **♦ NOTE ♦**

Be sure to modify the IR configuration before the CL configuration. If the CL configuration (IP address) were changed first, the IR would be lost.

(3) Once the configuration file has been modified, restart the IR.

## ■ CL/IR Application Entity Name, CL Port No. [Changing the M-Utility]

- (1) Start the M-Utility and change the "11. DICOM" configuration file in "2. CONFIGURATION SETTING".
  - "■ Starting the M-Utility" in "3.5 Setting the IR Configuration Regarding CL Connection (Setting in M-Utility)"

## Example of change:

```
IR Application Entity name: DICOM_IR → CRXUD1_02_U

CL Application Entity name: DICOM_IIP → CL_02_P

Port No.: 21760 → 10113
```

•
•
•
# fcr5501-n ,STORAGE\_U :DPR\_DICOM,,2,1,100,600,1
# dest-1 ,STORAGE\_P :DPR\_DICOM,21760,2,1,100,600,1
fcr5501-n,STORAGE\_U:DICOM\_IR,,1,1,100,600,1
CRxxxxxxxx,STORAGE\_P:DICOM\_IIP,21760,1,1,100,600,1

## ↓ Changed

fcr5501-n ,STORAGE\_U :DPR\_DICOM,,2,1,100,600,1

# dest-1 ,STORAGE\_P :DPR\_DICOM,21760,2,1,100,600,1

fcr5501-n,STORAGE\_U:CRXUD1\_02\_U,,1,1,100,600,1

CRXXXXXXXX,STORAGE\_P:CL\_02\_P,10113,1,1,100,600,1

## **♦** REFERENCE **♦**

If a second CL is to be connected to a single 5000 cassette-based reader, the following line should be described (example: host name is "CL-a", AE name is "CL\_a\_SCP, and port number is "10114).

------

(2) If there are multiple IRs, change the IR configuration for the second and third IRs in a similar manner to step (1).

#### **♦** *NOTE* **♦**

Be sure to modify the IR configuration before the CL configuration. If the CL configuration (IP address) were changed first, the IR would be lost.

(3) Once the configuration file has been modified, restart the IR.

## ■ CL Host Name [Changing the Service Utility]

"Appendix B Changing the CL Host Name" of "Reinstalling the Software (RI)" in the CR-IR346/348CL Service Manual

## **♦** NOTE **♦**

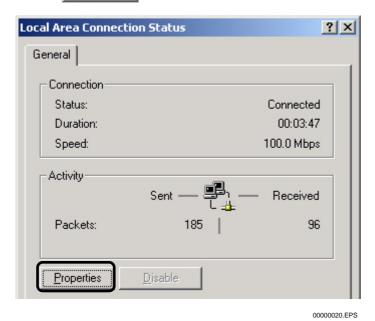
Changing the CL host name involves complicated procedures, such as reinstalling the MSDE. Be sure to observe the procedures described in the CR-IR346/348CL Service Manual to change the CL host name.

## ■ Subnet Mask, CL IP Address [Changing Network Settings in Windows 2000]

- (1) From the menu, select "Settings" and then "Control Panel".
  - The Control Panel opens.

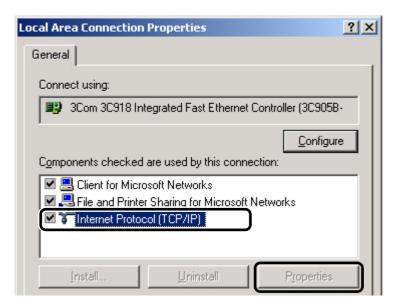


- ⇒ The "Local Area Connection Status" dialog box appears.
- (3) Click Properties



☼ The Local Area Connection Properties" dialog box appears.

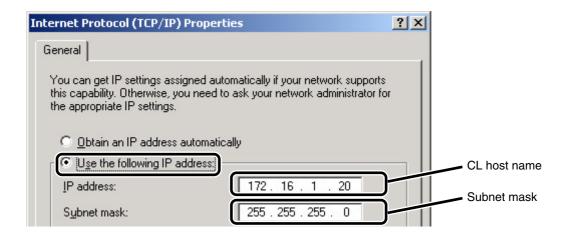
(4) Select ✓ Thternet Protocol (TCP/IP) and click Properties



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⇒ The "Internet Protocol (TCP/IP) Properties" dialog box appears.

(5) Make sure that Use the following IP address: is selected, and change the IP address or subnet mask.

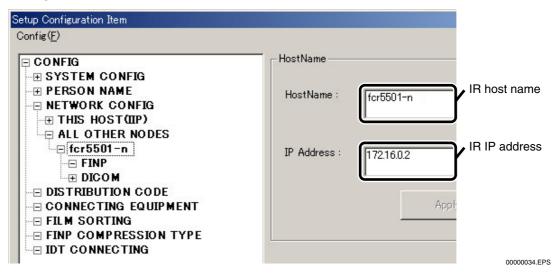


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- (6) Click OK
  - ⇒ Back to the "Local Area Connection Properties" dialog box.
- (7) Click "Close".
  - Back to the desktop.
- (8) Close the "Network and Dial-up Connections" window.

## ■ IR Host Name, IR IP Address [Changing the Service Utility]

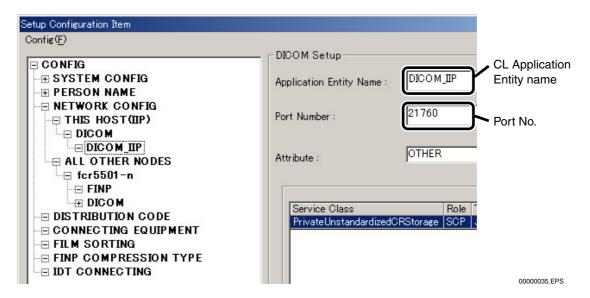
- (1) Start the Service Utility of the CL.
  - "1. Procedures for Starting and Quitting the Service Utility" of "Maintenance Utility (MU)" in the CR-IR346/348CL Service Manual
- (2) Click the "Setup Configuration Item" button.
  - The "Setup Configuration Item" dialog box appears.
- (3) Click NETWORK CONFIG ALL OTHER NODES fcr5501-n (IR host name).
  - The right side of the dialog box switches to "Host Name".
- (4) Change the host name or IP address.



(5) Click Apply and choose Save from the "Config" menu to save the setting.

## ■ CL Application Entity Name, CL Port No. [Changing the Service Utility]

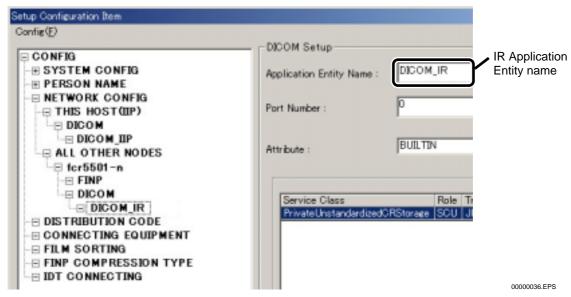
- (1) Start the Service Utility of the CL.
  - "1. Procedures for Starting and Quitting the Service Utility" of "Maintenance Utility (MU)" in the CR-IR346/348CL Service Manual
- (2) Click the "Setup Configuration Item" button.
  - The "Setup Configuration Item" dialog box appears.
- (3) Click NETWORK CONFIG THIS HOST (IIP) DICOM DICOM IIP (CL Application Entity name).
  - The right side of the dialog box switches to "DICOM Setup"
- (4) Change the Application Entity name or Port No.



(5) Click Apply and choose Save from the "Config" menu to save the setting.

## ■ IR Application Entity Name [Changing the Service Utility]

- (1) Start the Service Utility of the CL.
  - "1. Procedures for Starting and Quitting the Service Utility" of "Maintenance Utility (MU)" in the CR-IR346/348CL Service Manual
- (2) Click the "Setup Configuration Item" button.
  - The "Setup Configuration Item" dialog box appears.
- (3) Click NETWORK CONFIG ALL OTHER NODES I fcr5501-n (IR host name) DICOM DICOM\_IR (IR Application Entity name).
  - The right side of the dialog box switches to "DICOM Setup"
- (4) Change the Application Entity name.



(5) Click Apply and choose Save from the "Config" menu to save the setting.

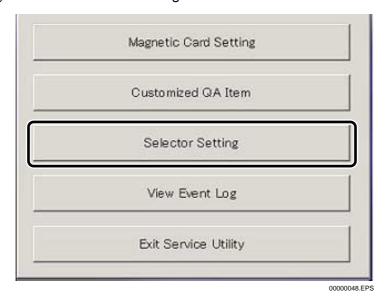
## 4.3 Re-Setting the Selector

If the selector has been set in Section 3.2 and if the IR host name has been changed when the IR has been incorporated into the hospital network, the selector should be re-set.

## **♦** NOTE **♦**

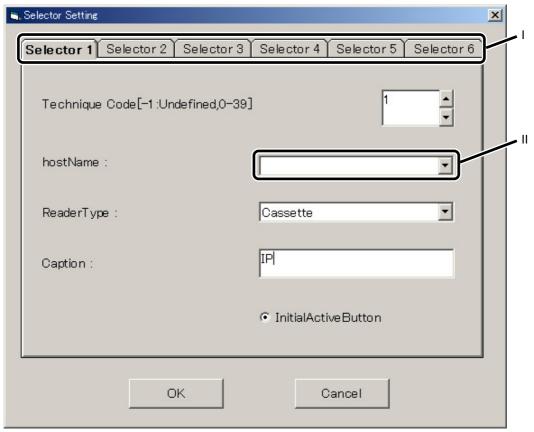
If the host name of the built-in device has been changed, be sure to re-set the selector. If the CL-AP is started without re-setting the selector, an error (code: 31099) will occur.

- (1) Start the Service Utility of the CL.
- (2) Click the "Selector Setting" button.



⇒ The "Selector Setting" dialog box appears.

## (3) Perform selector setting.



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- I. Select the tab where the built-in device has been registered.
- II. Because this field is vacant, choose the host name of the built-in device.
- (4) Click OK
  - ⇒ Back to the Service Utility screen.
- (5) Click the "Exit Service Utility" button.
  - The Service Utility exits to the desktop.

## 4.4 Checking Image Transfer

Transfer the image read by the IR to the CL, where it is outputted to the LP.

"3.6 Checking Image Transfer"

## 4.5 Backing Up the CL Configuration Files

After all the installation procedures are completed, back up the CL configuration files to two floppy disks.

"5. Restoring and Backing Up Configuration Files - Configuration Restore/Backup" of "Maintenance Utility (MU)" in the CR-IR346/348CL Service Manual

## 4.6 Connecting Other Device(s)

If other devices, such as HI-C655/HI-C654/QA-WS/ODF/RIS, is to be connected to the CL, follow the procedures described in the following references to perform connections and settings as appropriate.

"Connecting Other Devices (OE)" in the CR-IR346/348CL Service Manual

That's all there is to Step 3.

# Appendix 1. Setup for Connecting Multiple CLs to a Single 5000 Cassette-based Reader

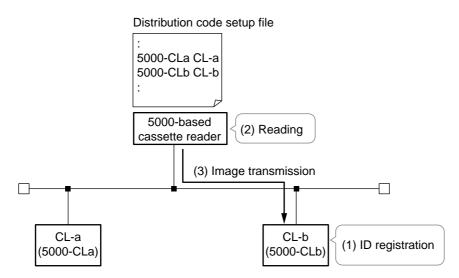
If multiple CLs are to be connected to a single 5000 cassette-based reader, it is necessary to set the distribution code and patient information share function, in addition to the configuration settings required to exchange image and ID information.

Procedures for setting the distribution code and patient information share function are described here.

## 1.1 General Description

#### Distribution code

The distribution code is set to determine in which CL the image read by the reader is registered for identification. Unless the distribution code is set, an image-sending CL cannot be identified, so that transmission cannot be done.



#### Data flow

- (1) On the CL-b, the ID information and cassette barcode are registered.
- (2) The cassette is set on the reader to read image data.
- (3) The reader transmits image data according to the distribution code setup file.

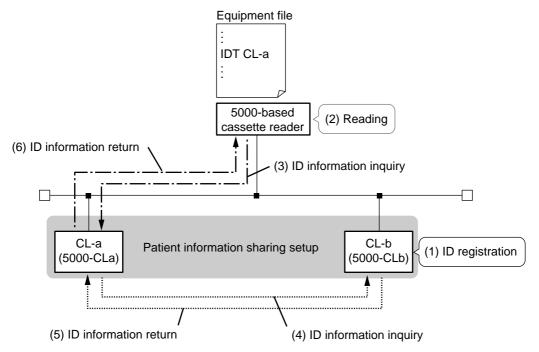
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## Patient information share function

The patient information share function is intended to share ID information among the ID registered devices (CL and IDT-IV units).

Upon inquiry about ID information from the reader, if the patient information of interest is not found in the CL, it makes an inquiry to another CL or IDT-IV where sharing setup has been done to receive the ID information, and returns a notification to the reader regarding where the ID information of interest is found.

This setting should always be made if multiple CLs are to be connected to a single 5000 cassette-based reader.



#### Data flow

- (1) On the CL-b, the ID information is registered.
- (2) The cassette is set on the reader to read image data.
- (3) The CL-a is inquired about ID information.
- (4) Because no ID Information is found in the CL-a, CL-b is inquired about ID information where sharing setup has been done.
- (5) The ID information is returned to the CL-a.
- (6) The ID information is returned to the reader.

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In the example of the illustration (distribution code) on the previous page, an inquiry about ID information is made first to the CL-a, and the distribution code of the CL-b is communicated to the reader via the CL-a.

## 1.2 Setup Procedures

## **♦** NOTE **♦**

The setup procedures described here presumes that the procedures described in "3. Step 2 < Temporary Installation>" have been completed.

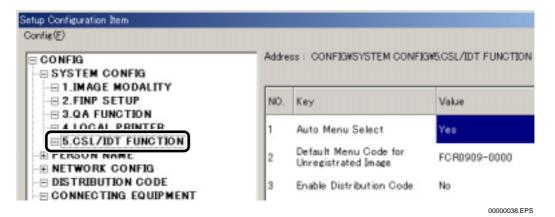
## ■ Setup on the CL Side

## **♦ NOTE ♦**

The following setup should be done for all the CLs connected to the reader.

## Setting of distribution code

- (1) Start the Service Utility of the CL.
- (2) Click the "Setup Configuration Item" button.
  - The "Setup Configuration Item" dialog box appears.
- (3) Click SYSTEM CONFIG 5.CSL/IDT FUNCTION



- The right side of the dialog box switches to the IDT and console information configuration screen.
- (4) Set the distribution code (e.g., 5000-CLa) in the



field.

#### **♦ NOTES ♦**

- The distribution code should be within 8 characters in length.
- The distribution code should be set so that it does not overlap within the same network.

## Patient information sharing setup

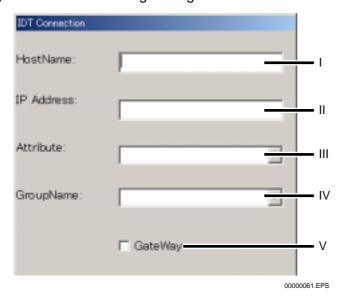
- (1) Start the Service Utility of the CL.
- (2) Click the "Setup Configuration Item" button.
  - A "Setup Configuration Item" window opens.
- (3) Click IDT CONNECTING.



The right side of the window switches to the "CONFIG\IDT CONNECTING" screen.



## (5) Perform the following settings.



- I. Type in the host name for the host where sharing setup is made.
- II. Type in the IP address.
- III. Select the attribute of the device.
- IV. Set GroupName.

#### **♦** *NOTE* **♦**

If GroupName is set for the first time, type in GroupName by use of a keyboard, since there is no entry in the GroupName field.

V. To set this device as a GateWay device, check the  $\square$  GateWay box ( $\square \rightarrow \bigvee$ ).

## **♦** NOTE **♦**

If patient information is to be shared among different groups, it is necessary to set one GateWay device for each group (check the GateWay box).

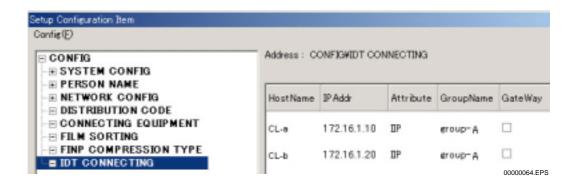


- (7) To continue setup for another CL, repeat steps (4) through (6).
- (8) In the "Config (F)" menu, save the setup that has been done.

## ● Example of CL (CL-a and CL-b) setup

## **♦** *NOTE* **♦**

Be sure to set both CL-a and CL-b devices.



## ■ Setup on the IR Side

I Changing the EQUIPMENT file setup

(1) Start the M-Utility to display the "2. CONFIGURATION SETTING" - "4. EQUIPMENT" configuration, and add a host with IDT capability, as needed (e.g., CL-b).

## **♦** REFERENCES **♦**

- Up to five IDT units may be specified in the "IDT CL-a..." setup item.
- When "IDT CL-a CL-b CL-c" is set, an inquiry about ID information is made to the host that is described first (in this case, CL-a). Only if communication with that host fails due to power-OFF and so forth, an inquiry about ID information is made to the host that is described next.

(2) Delete the DISPLAY attribute setting.

## **♦** NOTE **♦**

If the distribution code is used, the DISPLAY attribute setting should always be deleted.

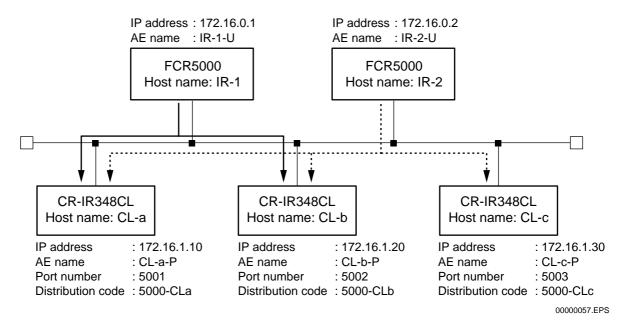
## Setting of distribution code

(1) Display the "8. DISTRIBUTION" configuration, and add the distribution codes and host names for the CLs as destinations.

```
# # Codedstb # # Code Host Name [HostName]...
5000-CLa CL-a
5000-CLb CL-b
```

## 1.3 Setup Example [Reference]

An example of configuration file settings (reader) is presented below where the following system configuration is operated.



## ■ IR-1 Configuration Files

#### EQUIP file

\* "CL-b" should be set as needed.

## DEVICE file

```
CL-a:DISPLAY,0200,,
CL-b:DISPLAY,0200,,
```

#### HOSTS file

```
172.16.0.1 IR-1
172.16.1.10 CL-a
172.16.1.20 CL-b
```

#### Codedstb file

• • • 5000-CLa CL-a 5000-CLb CL-b

## Base on DICOM file

```
•
iR-1,STORAGE_U:IR-1-U,,1,1,100,600,1
CL-a,STORAGE_P:CL-a-P,5001,1,1,100,600,1
CL-b,STORAGE_P:CL-b-P,5002,1,1,100,600,1
```

## **■ IR-2 Configuration Files**

## EQUIP file

\* "CL-b" and "CL-c" should be set as needed.

## DEVICE file

```
CL-a:DISPLAY,0200,,
CL-b:DISPLAY,0200,,
CL-c:DISPLAY,0200,,
```

## HOSTS file

```
.

172.16.0.1 IR-1

172.16.1.10 CL-a

172.16.1.20 CL-b

172.16.1.30 CL-c
```

## Codedstb file

5000-CLa CL-a 5000-CLb CL-b 5000-CLc CL-c

## Base on DICOM file

•
iR-1,STORAGE\_U:IR-1-U,,1,1,100,600,1
CL-a,STORAGE\_P:CL-a-P,5001,1,1,100,600,1
CL-b,STORAGE\_P:CL-b-P,5002,1,1,100,600,1
CL-c,STORAGE\_P:CL-c-P,5003,1,1,100,600,1